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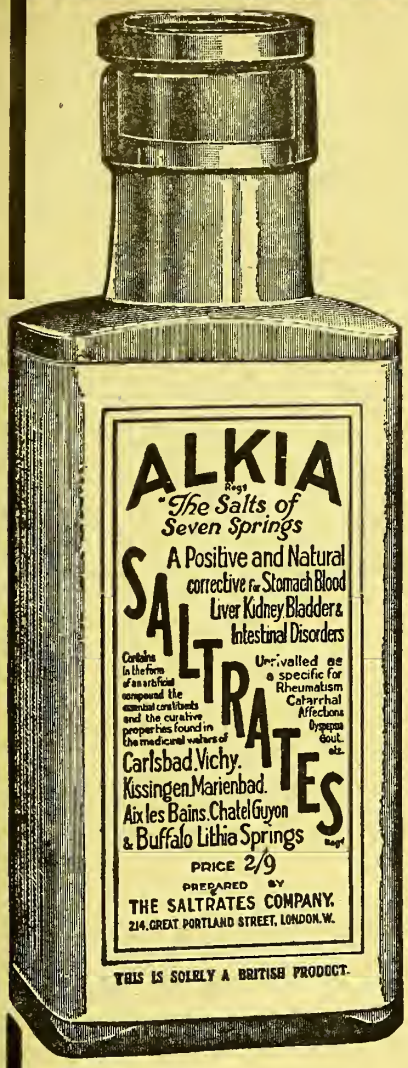

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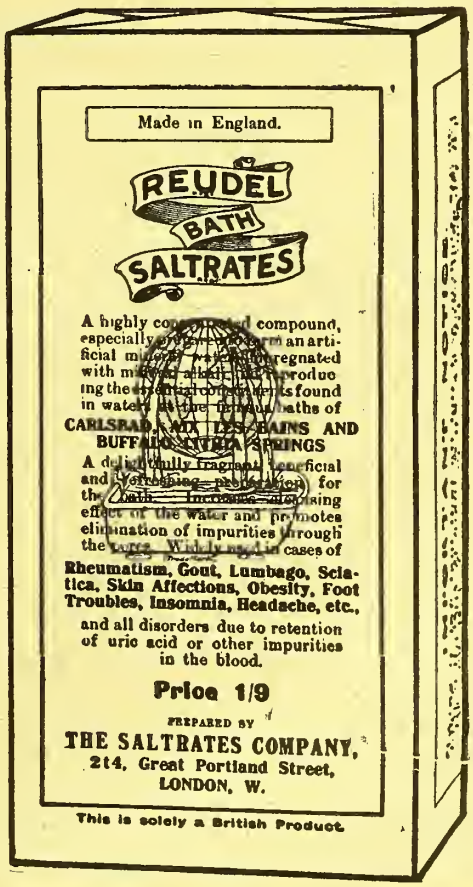

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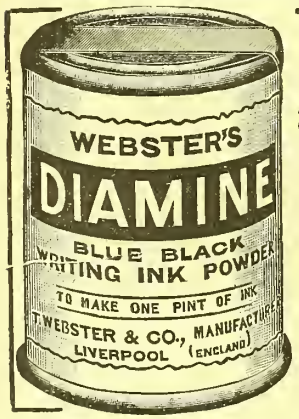

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Diamine Works,
LIVERPOOL.

A WORD ABOUT
LIME CREAM

To meet the present **BIG DEMAND** for a **First-class** Lime Cream for the Hair, we are prepared to supply promptly in **All Quantities,** packed as required, up to 40-gall. casks, at **Most Reasonable** prices.

Apply, stating quantity required,
— for samples and quotations —

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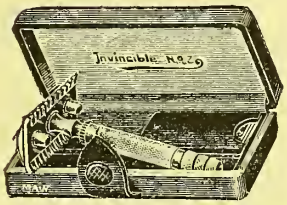
LONDON, S.E.

XMAS Maw's Page GIFTS

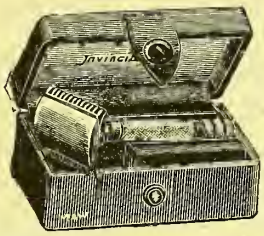
S MAW SON & SONS
(GPO BOX Nº 54)
7-12 ALDERSGATE ST
LONDON E.C.

NUMBER 269 DEC. 9, 1916

HOURS OF BUSINESS: 8.30 a.m.—5.30 p.m. CLOSE AT 1 p.m. SATURDAYS

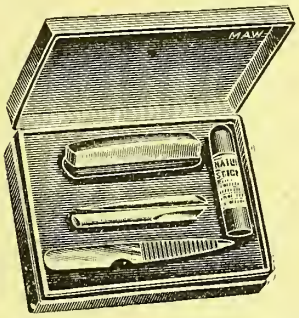


B2753/B. "Invincible" No. 2. Maw's Superfine, 6 blades in leatherette velvet-lined case. 36/- doz.



B/2754B. "Invincible" No. 3. Maw's Superfine, 12 blades in leatherette velvet-lined case. 48/- doz.

Fancy Fruit Bowls. Assorted decorations. Diameter 10¼ in. 2/6 each.



The "Iris" Manicure Set. An artistic little box containing nail crayon, nail polisher, orange sticks and flexible steel file. 9/- doz.

The Margin

During the past few weeks we have beheld the spectacle of certain newspapers exhorting their readers to refrain from purchasing Christmas presents, and at the same time carrying advertisements of Christmas presents which various retail houses pay some thousands of pounds daily to insert. Necessity, of course, would be pleaded if this inconsistent attitude was pointed out—no newspaper could be sold at a penny without advertisements—but it is certainly an unusual proceeding to so detract from the value of their customers' commercial enterprise, who are, after all, their chief supporters.

. . .

This column is no place in which to debate at length the *pros* and *cons* of the no-gift campaign, which will inevitably be solved by the public, who will in all probability strike the happy margin between expensive and unnecessary presents and acceptable and serviceable gifts.

. . .

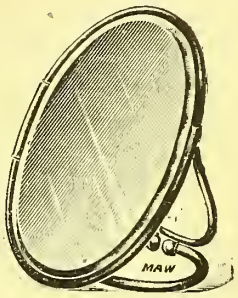
It is inconceivable that the soldier and the sailor will be overlooked this Yule-tide. And the Home Forces and the men on leave will remember their friends in the time-honoured way.

. . .

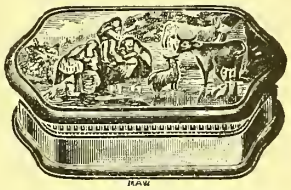
We have overwhelming evidence that Pharmacists are interpreting the Nation's needs and wishes in the right spirit; a spirit of anticipation of their customers' requirements in an economical and useful manner.

Such Pharmacists will study this page and our double issue of November 11. It is only thirteen clear business days to Christmas.

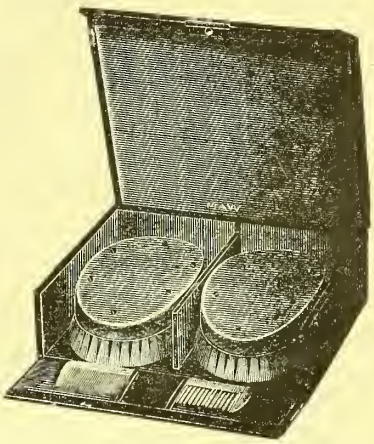
Capsule



Heavy bevelled Mirror in nickel frame. Size 6 by 4 in. To stand or hang. 14/- doz



Fancy Fenton Ware Boxes for toilet table. Printed in colours, assorted designs. Round, 22/-; Oblong, two sizes, 22/- and 27/3 doz.



52/C. Leather-covered case, drop front, containing pair Military Hair Brushes (11-row white Bristle, black back) and Comb. 5/- per case complete.

GENUINE
Sanatogen
and
Formamint
are now
absolutely
BRITISH

Attach this Label to your present stocks of Sanatogen, Formamint, etc.

THIS PRODUCT IS NOW ABSOLUTELY BRITISH.

The English assets of A. Wulfing & Co., including all stocks of Sanatogen, etc., have been purchased from the Board of Trade by Lord Rhondda, in association with other business men. In the future, therefore, this business will be entirely British, and free from enemy capital or influence.

This is the only genuine original Sanatogen, and its manufacture will be continued at the Penzance factory. It will subsequently be re-named, to avoid confusion with worthless substitutes.

THE BRITISH PURCHASERS OF THE SANATOGEN CO., 12, CHENIES STREET, LONDON, W.C.

Let us send you your share of these Million Leaflets.

Send us a Post-card saying how many you can use.

Give one to every Customer interested in Sanatogen or Formamint.

We have already rushed out one million copies of the leaflet illustrated here, and we want every Chemist in the United Kingdom to have, as soon as possible, a sufficient supply for his own use.

The idea is that when you have told a customer that the genuine original Sanatogen and Formamint are now entirely British, you should hand him one of these leaflets, in order to clinch the matter and to act as a reminder.

Again, if you are too busy to talk to the customer, you can give him the leaflet and tell him that it contains full information on the subject, reprinted from the London newspapers.

Will you kindly write and let us know how many of these leaflets you can probably use during the next month or two, and we will at once send them to you post paid.

We are also printing special labels (as illustrated here) to be attached to the outside packing of Sanatogen, Formamint, Albulactin and Cystopurin, and all our stock will be so labelled for the present. If you would like to label any stocks that you may have by you, we should be pleased to send the labels on hearing from you as to the number and sizes of the tins, etc. for which they are required.

We have decided to spend a very large sum in advertising during the next twelve months, and every penny of this will help you to sell our goods.

Will you help us, in return, by pushing these excellent lines; also by sending us the names and addresses of any of your customers whom you know have used Sanatogen and Formamint in the past, and whom we will especially circularise on your behalf.

We should also be greatly obliged if, when writing to us, you will mention any suggestions which may have occurred to you for stimulating the business.

Our new stock of show-card material will be ready in the near future.

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We issue a list of WHOLESALE HOUSES who keep above in stock; if for any reason you have difficulty in obtaining supplies, please send postcard direct to us, and a list will be sent to you by return.

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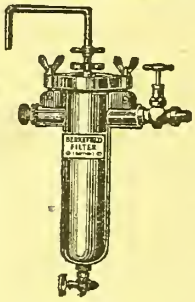
NOTICE TO THE TRADE.

MESSRS. AERATORS, LTD., regret that it has been, and will be for some time yet, impossible for them to meet demands for the "Prana" Sparklet Syphons and Bulbs, not only owing to other urgent war work, but also to the restricted supply of materials and the large demands (which must be considered preferentially) by the Expeditionary Force Canteens, Red Cross Society, &c. &c.

As regards "D" Bulbs, for the time being it is only possible to refill empty bulbs returned, and the Company request the co-operation of the Trade in the return of as many empties as possible for refilling.

AERATORS LTD.,
"Prana" Sparklet Works,
Upper Edmonton, N.

To the Trade



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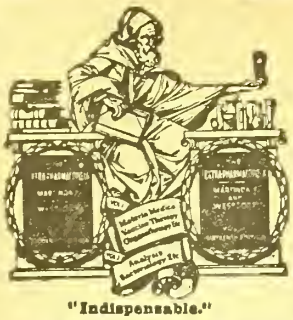

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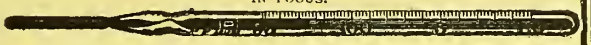

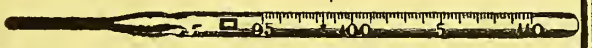

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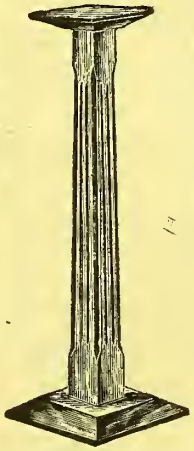

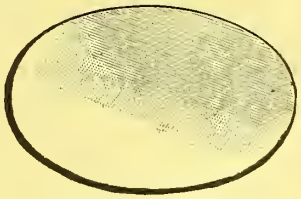

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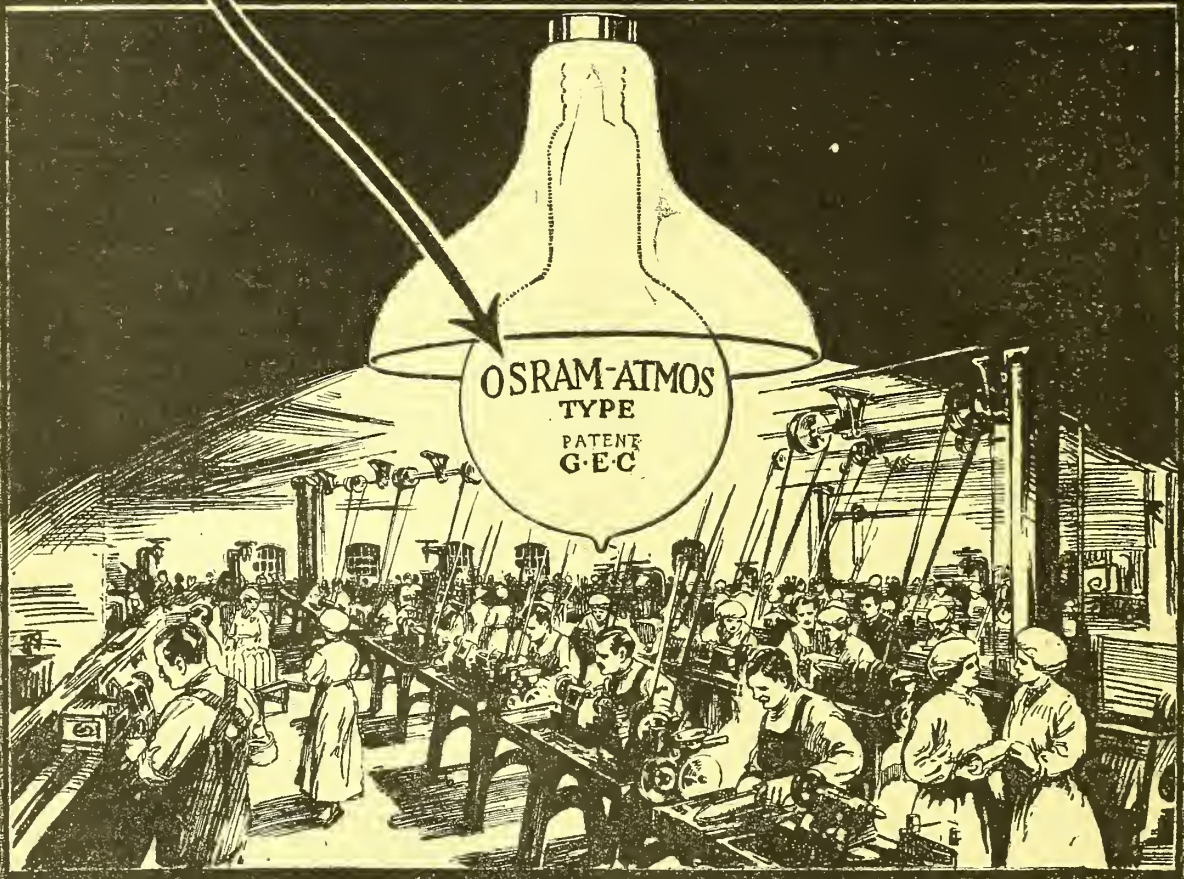

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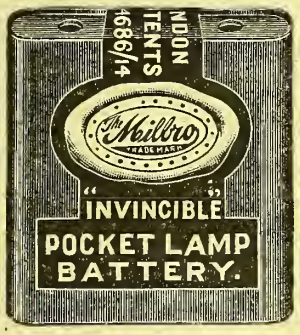

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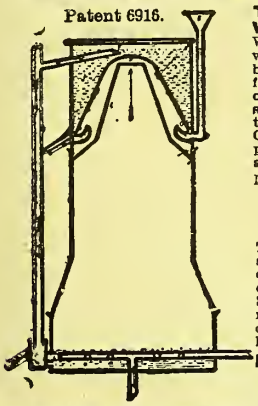

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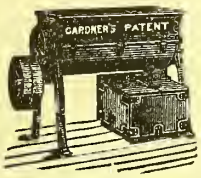

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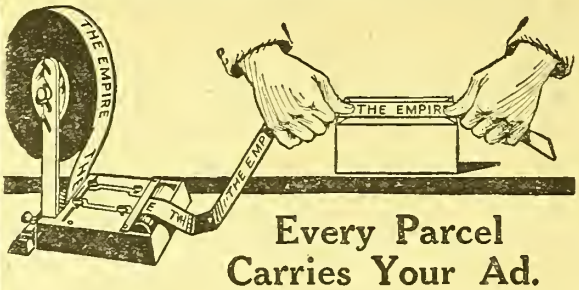

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TRADE MARK

Profit to the Trade 33⅓%
Carriage Paid to All Parts.

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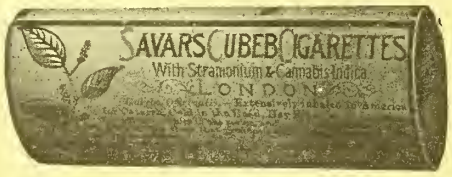

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LONDON AND LIVERPOOL
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In Square Bottles

2 oz.	...	11/- doz.
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8 ,,	...	41/6 ,,

In Wickered Bottles

½ pint	...	34/6 doz.
1 ,,	...	65/- ,,
2 ,,	...	122/- ,,

Write for Samples. Showcards supplied.

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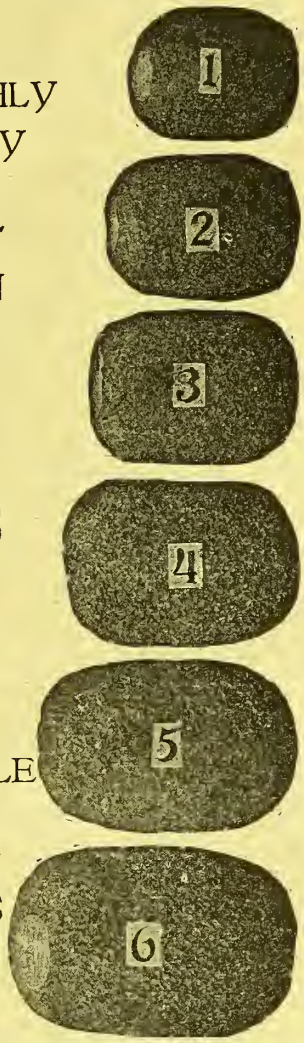

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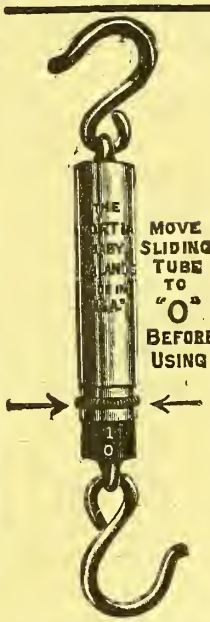

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NET WEIGHT
Baby Balance
Weighs up to 15 lb.

Price	Retail
11/6 dozen.	1/6 each.

Hang a balance in your window with our dainty cut-out showcard in colours on the lower hook, showing a baby actually being weighed, and you will soon be re-ordering.

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Obtainable through all Wholesale Houses.

RECOMMEND THE PROTECTED BRAND

AND SUPPORT THOSE WHO SUPPORT YOU. IT PAYS YOU TO PUSH THIS INK IN PREFERENCE TO NON-PROTECTED MAKES. IT IS NOT ONLY THE BEST, BUT SHOWS YOU THE MOST PROFIT.

ASSURED MINIMUM PROFIT 33⅓ %

JOHN BOND'S "CRYSTAL PALACE" MARKING INK.

FIXED SELLING PRICES

With or without heating, whichever kind is preferred.
PLEASE SPECIFY WHEN ORDERING.

As supplied to the Royal Households, and awarded forty-five Gold Medals, etc.

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(VINUM AURANTII B.P.) Prepared in strict accordance with the Formula of the British Pharmacopœia. (Wholesale only.)

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Is the Skin Tonic for 1916.

It is effective.
It is attractive.
It is price-protected.
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It sells readily.
It bears a good profit.

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This handsome Showcard, in 14 colours (size 24 by 17) can be had by any chemist who will give it a good place in his pharmacy.

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OVER 100 % PROFIT
ENSURED & PROTECTED (P.A.T.A.)
for sellers of

Laurence's Hair Dyes

One solution, nine shades.

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2/6	2/3	15/-	
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Do. 6 doz. do. 8 bottles gratis.
Do. 12 doz. do. 18 bottles gratis.
Equivalent in the case of the size in most general demand, viz. 1/6 size to 4/6, 12/- and 27/- respectively.

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TRADE **'TABLOID'** MARK
BRAND

Medicine Pocket-Case

No. 109

For Officers and Men

TRADE **'TABLOID'** MARK
BRAND

First-Aid

No. 710 (Pocket Outfit)

For Cadets, Scouts, etc.

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KILLS

BUGS, FLEAS, MOTHS, BEETLES, etc.

NO DISAPPOINTMENT WHEN 'SECTO' IS USED.

3d. Tins, 2/3 per doz. 6d. Tins, 4/- per doz. 1/- Tins, 8/- per doz.

(Subject to our usual profit-sharing discount.)

SHOWCARDS, WINDOW BILLS, etc., Supplied.

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'PANOPEPTON' presents the entire edible substance of prime lean beef and best wheat flour in a perfectly soluble, diffusible, and absorbable form. It is at once a grateful stimulant and food.

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50% stronger than the product of the 1914 B.P.

To make 24 oz. GLYCERINUM PEPSINI B.P.

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Acid Hydrochloric	40 minims
Glycerin	4 oz. 6 drms.
Distilled water, sufficient to produce	... 24 oz.

Supplied in 4 oz. and 16 oz. (fluid measure) at 24/- and 72/- per doz., and in Winchester Quarts at 27/- each.

These prices are subject to B. W. & Co.'s Terms.

GLYCERINUM PEPSINI CONCENTRATED (FAIRCHILD) may be obtained from all Wholesalers.

Originated and Manufactured by
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Coming Events.

Sunday, December 10.

Pharmacists' Volunteer Training Corps, Duke of York's, Chelsea. At 9.30 A.M., Staff parade. At 11 A.M., C.O.'s parade and sanitation lecture by Q.M. Sergeant Luke. At 12 noon, First-aid lecture for Section 5 and recruits. The bacteriological classes will be held as usual on Wednesday and Thursday at 17 Bloomsbury Square, W.C.

Tuesday, December 12.

Eastbourne Pharmacists' Association, 2\ Terminus Buildings, at 9 P.M. Ordinary meeting.

West Bromwich Pharmaceutical Association, at Mr. Beattie's, at 8.30 P.M. Messrs. Worwood and Martin will give an address on "How the Prioing Bureau Works."

Wednesday, December 1 .

Manchester Pharmaceutical Association, 65 Market Street, at 3 P.M. Mr. Harold Wyatt on "Dispensing Notes."

Newcastle-upon-Tyne Pharmacists' Association, Church Institute, Hood Street, at 6.30 P.M. Lantern lecture by Mr. C. J. Young on "British Monasteries and Monastic Life."

Western Pharmacists' Association, Restaurant Frascati, London, W., at 9 P.M. Mr. W. J. Uglow Woolcock on "The Advantages of Membership of the Pharmaceutical Society."

Thursday, December 14.

Glasgow and West of Scotland Chemists' Association, 165 Hill Street, Charing Cross, Glasgow, at 8.30 P.M. Mr. A. Laing on "The After-War—Social, Political, and Economical."

European War News.

Import and Export Notices.

FRANCE.—It is provided that as from January 1, 1917, importers of goods produced in or exported from foreign countries must state in their declarations the names and addresses of the persons for whom the goods are destined, and must indicate whether the goods are or are not destined for Government supplies or work on account of the State. The Customs authorities may demand the production of the way-bills, shipping documents, invoices, and other documents to check the accuracy of the statements so made.

SWEDEN.—Sal ammoniac, sodium sulphate, and sodium bisulphate have been added to the list of articles prohibited for exportation from Sweden to all countries, and also in transit through Sweden.

UNITED KINGDOM.—Algin and its compounds have been added to Class C of the prohibited exports.

URUGUAY.—The importation is to be allowed *viâ* the port of Montevideo, until further notice, of serums and vaccines, of kinds not produced in Uruguay, which are to be used for animals belonging to the persons importing the serums and vaccines. Before the articles may be imported, the interested party must present to the Sanitary Inspection of Animals Department a written statement of the amount of the serums and vaccines which it is desired to import.

Personalia.

MR. RICHARD NEEDHAM, chemist and druggist, Grosvenor Square, Stalybridge, has lost both his sons in France.

LIEUTENANT J. M. PRINGLE, R.A.M.C., son of the late George Pringle, chemist and druggist, Burntisland, has been gazetted captain.

CAPTAIN W. R. INNES, son of Mr. David Innes, Stalybridge, whose death was reported in the *C. & D.* last week, was killed just after returning from sick leave.

Q.M.S. MAGNUS HERD, Black Watch, brother of Mr. R. S. Hord, chemist and druggist, Kirkcaldy, has been wounded, and is now in hospital. He came from Canada to join the Colours.

PROFESSOR THE REV. D. MORRIS JONES, M.A., B.D. (Bala Theological College), younger brother of Mr. H. Humphreys Jones, F.C.S. (Liverpool School of Pharmacy), has been recalled from Serbia, where he was serving as a private in the R.A.M.C., in order to take up a commission as Chaplain to the Forces.

LANCE-CORPORAL WM. THOMAS, of the Essex Regiment, who has been awarded the Military Medal, is a son of Mr. Joseph Thomas, chemist and druggist, Garstang, Lancs. He served in France for twelve months, and was invalided home blind. Later he recovered his sight, and has been serving in Mesopotamia the great part of this year.

FLIGHT-LIEUTENANT EGBERT CADBURY has been awarded the Distinguished Service Cross for his services in the destruction of the Zeppelin off the Norfolk coast last week. He is the youngest son of Mr. George Cadbury, chairman of Cadbury Bros., Ltd., Bournville. At the beginning of the war Lieutenant Cadbury left Trinity College, Cambridge, where he was studying for the legal profession, and joined as an A.B. the crew of the *Zarifa*, a converted yacht manned mostly by Cambridge men. After nearly a year at sea he entered the R.N.A.S., and gained his pilot's certificate. He has been stationed on the East Coast for nearly eighteen months.

THE MANY FRIENDS in Sheffield and elsewhere of Private John Reynolds, R.A.M.C., will be delighted to hear that he has been saved from the *Britannic*. Writing to his parents in Wharncliffe Road, Sheffield he says he hopes they have not been worrying about him. He was picked up by a launch. It was a bit of a swim for him. All the souvenirs he bought at Naples, along with his kit, are gone. Writing to a friend, he says he is comfortable on a warship, but his experience had been terrible. The boat he was in was crushed to pieces; he was in the water for forty minutes, but was all right once clear of the propellers. Private Reynolds was educated at Worksop College, and was assistant to Mr. S. P. Lowe, chemist, London Road, Sheffield, prior to joining the Army in August 1915.

GROCERS IN DUNDEE have been doing a trade in glycerin for some years, and are now picking up more customers to whom chemists refuse supplies. [This is the business that the Ministry of Munitions particularly desires should be stopped. Cannot local chemists bring the position to grocers' notice?—EDITOR *C. & D.*]

B

Cocaine and Opium.

AMENDED AND NEW REGULATIONS.

In THE CHEMIST AND DRUGGIST, August 5, p. 34, we printed the King's Cocaine and Opium Proclamation, and the Regulation (40B) in respect to the dispensing and sale of these substances. Similar information with notes is contained in *The Chemist and Druggist Diary*, 1917, p. 354 The Home Secretary now informs us that by a Privy Council Order dated December 5, 1916, some amendments have been made in the Regulation, of which the following are the most important:

1. Power is given to the Secretary of State to issue licences for the manufacture of cocaine in this country. Any person manufacturing or carrying on any process in the manufacture of cocaine without a licence, or otherwise in accordance with the conditions of the licence, will be liable to a penalty.
2. A medical practitioner who gives a prescription for the supply of cocaine otherwise than in accordance with the conditions laid down in the Regulation is made liable to a penalty.
3. Every article containing cocaine must be marked with the amount and percentage of cocaine contained in it.
4. Power is given to the Secretary of State to direct that any person authorised under the Regulation to purchase cocaine or opium who is convicted of an offence against the Regulation or against the Proclamations regulating the import or export of cocaine or opium shall cease to be an "authorised person."
5. The authorisation in the case of registered chemists and druggists is limited to persons, firms, or bodies corporate who carry on the retail business of a chemist and druggist.

NEW PROVISIONS.

We have compared the Regulations as printed in the *C. & D.* and *Diary* aforesaid with those passed by the King on December 5, and note that "*the* Secretary of State" has become "*a* Secretary of State" in this week's version. (1) in the original is now followed by the following two new provisions:

(2) If any medical practitioner gives a prescription for the supply of cocaine otherwise than in accordance with the foregoing provisions he shall be guilty of a summary offence against these Regulations.

(3) If any person manufactures or carries on any process in the manufacture of, cocaine, without a licence from a Secretary of State, or otherwise than in accordance with any conditions attached to the licence, he shall be guilty of a summary offence against these Regulations.

The old (2) is now (4), and is followed by a new provision—viz.:

(5) If any person sells any article into the composition of which cocaine enters, in a package or bottle which has not plainly marked on it the amount and percentage of cocaine in the article, he shall be guilty of a summary offence against these Regulations.

Paragraphs (3) and (4) are now (6) and (7), while (8) becomes (9). New (8) and (10) are included, and the old (7) is now (11), and is revised, the provisions as regards Ireland being different, although not yet in strict accordance with the Pharmacy Acts, 1875 and 1890. These new paragraphs are as follows:

(8) Every person who deals in cocaine or opium shall keep a record, in such form as may be prescribed by a Secretary of State, of all dealings in cocaine or opium effected by him (including sales to persons outside the United Kingdom), and if he fails to do so he shall be guilty of a summary offence against these Regulations; every such record shall be open to inspection by any person authorised for the purpose by a Secretary of State.

(10) If any authorised person is convicted of any offence under this Regulation or under any proclamation regulating the import or export of cocaine or opium, a Secretary of State may direct that he shall cease to be an authorised person for the purposes of this Regulation.

(11) For the purposes of this Regulation—

The expression "authorised person" means a duly qualified medical practitioner, a registered dentist, a registered veterinary surgeon, a person firm, or body corporate carrying on the retail business of a chemist and druggist under and in accordance with the provisions of the Pharmacy Act, 1868, as amended by the Poisons and Pharmacy Act, 1908, a person carrying on such business in Ireland under and in accordance with the provisions of the Pharmacy Act (Ireland), 1875, as amended by the Pharmacy Act (Ireland) (1875) Amendment Act, 1890, a licentiate of the Apothecaries' Hall in Ireland, or a person holding a general or special permit from a Secretary of State to purchase or to be in possession of the drug in question.

Cocaine or opium in the order or disposition of any person shall be deemed to be in his possession.

[Definitions of "cocaine" and "opium" as before, but the following is added to the cocaine definition, "or any solid or liquid extract of the coca leaf containing 0.1 per cent. or more of the drug."]

The new Regulations do not contain the former last clause, viz.:

For the purposes of this Regulation the expression "intoxicant" includes any intoxicating liquor, and any sedative, narcotic, or stimulant drug or preparation.

This is already covered by a prior regulation.

General Medical Council.

THE whole of Thursday afternoon, November 30, was taken up by the consideration of two penal cases. Lewis Augustus Walker, M.R.C.S., L.R.C.P., Yewdale, Lee-on-the-Solent, appeared in the Divorce Court last March, when it was found that he had committed adultery with a woman who had been a patient. He was now charged before the Council with infamous conduct in a professional respect. Dr. Walker, a stalwart figure in khaki, who had served in Serbia and had won a decoration, appeared in answer to the notice, attended by counsel and solicitors. He was examined and cross-examined at length, and an hour's consideration *in camera* was given by the Council. At the end of that time the President announced that the facts alleged had not been proved to the satisfaction of the Council.

The City of Birmingham Insurance Committee brought a complaint, postponed since last session, against Robert Francis Ferris, M.B., Ch.B., Canfield Grove, Wigan Old Road, Ashton-in-Makerfield, that he had been drunk while attending a patient, and incapacitated from carrying out his professional duties towards him. Both accused and complainant were represented by counsel, and three witnesses came from Birmingham to prove the facts alleged. Dr. Ferris, who was in the witness-box for some time, gave his answers in a strong Irish accent, and with a confusion of mind that caused some laughter even from the learned Legal Assessor. He had been in practice sixteen years, and several testimonials as to his character were read from practitioners of standing. After a short deliberation the President said that the Council had found the facts alleged to be proved, and that they indicated a grave dereliction of professional duty. In view, however, of the evidence as to former good character, judgment would be postponed till next session.

Two cases of felony were quickly disposed of on Friday. Edmond Heskin, M.B., B.S., 27 West Street, Leeds, and Henry Percy Jelley, L.M.S.S.A., 174 High Street, Homerton, were struck off the register. The former had been convicted and sentenced at Leeds Assizes to twelve months' imprisonment for killing a woman by criminal neglect; the latter had received a sentence of three years' penal servitude at the Central Criminal Court for killing a woman by an illegal operation. These cases have been duly referred to in the *C. & D.*

The Executive Committee, having considered the conditions under which medical qualifications are granted in the Straits Settlement and Japan, recommended that the diploma of Singapore and the degree of B.M. of Japan shall entitle a person to be registered in the Foreign List of the Medical Register. The report was received and entered. It was agreed that the application for registration from Mr. T. B. Castenada, M.R.C.S., who was entitled to, but who had omitted to register before the appointed day, should be acceded to. On the motion by Dr. Norman Moore, seconded by Sir John Moore, the following report of the Pharmacopœia Committee was received and entered on the minutes:

The number of copies of the British Pharmacopœia, 1914, which were sold by the publishers between May 20, 1916, and November 25, 1916, was 1,635. The total number sold since January 1, 1915, is thus about 27,035 copies. Of the second issue, published in May 1915, about 1,450 copies remain in stock at the present date. A third issue will probably be required in 1917. The Committee record with gratification that his Majesty has been pleased to confer the honour of knighthood upon Sir Nestor Tirard senior editor of the Pharmacopœia, and Secretary to the Pharmacopœia Committee for twenty years.

Latin for the Preliminary Examination.

The Council took up the report of the Education Committee, and warmed up into a long and eloquent debate on the expedience of compulsory Latin for the Preliminary. The Committee recommended that the Council should come into line with the Universities of London, Liverpool, Leeds, Sheffield, and Birmingham, who now accept the Senior Leaving certificate of the secondary schools as the equivalent of Matriculation examinations for medical candidates. Dr. Mackay, in presenting the report, thought it unwise of the Council to seek to control the examinations, and demand Latin from the students who registered, when the Universities said that it is not necessary. Sir John Moore declared that he should give the resolution the most strenuous opposition in his power. He held that the Council were the proper judges of medical education, and that Latin is essential. The representatives of Manchester and Birmingham Universities, Dr. Elliot Smith and Sir B. Windle, also objected that the removal of Latin would be a retrograde step. Sir Francis Champneys, Dr. Pye-Smith, and Sir Clifford Allbutt thought, on the contrary, that the modicum of Latin required is so small—a beggarly pretence of odds and ends and tags that give a student no real insight into the language—that it is not worth keeping. The time devoted to it would be better bestowed on other subjects. Sir Henry Morris and Dr. Norman Moore pointed out that the Council was unwise to require from students who registered a subject not required by the Conjoint Board. The President stated that no University would be coerced; all would be free to retain Latin if they chose. The report recommended only that the Council should not deem it indispensable for registration. The vote was taken on the hour of six, and that part of the report was adopted which made Latin non-essential for senior students, with the relevant recommendation that all Matriculation examinations of the Universities be recognised. This brought Friday's business to an end.

The Council met at eleven o'clock on Saturday morning, when the second portion of the report of the Education Committee gave rise to another spirited discussion. The Committee were of opinion that as far as the Junior Entrance examination is concerned there is no possible substitute for Latin, and that its recognition should be retained. It was objected that the requirement would hamper women students, who rarely touch Latin, but who make just as capable doctors as if they had learnt the classics. Finally, that part of the report was remitted back to the Committee for further consideration.

The recommendations that the Council recognise the Final examinations of any specially recognised foreign university, and those conducted by approved examining bodies out of the United Kingdom, were adopted. The Council had been *in camera* for an hour on Friday, and again retired for another hour on Saturday. The only public result was the announcement by Mr. Tomes that "the Council have considered *in camera* the report of the Dental Education and Examination Committee." The time after lunch till the Council rose at 3.30 was occupied by Dr. Magennis, who entered a lengthy protest against what he alleged to be persecution and injustice waged against the Apothecaries' Hall, Dublin, by the repeated inspections and visits. He urged the Council pathetically not to make it the Cinderella or the Belgium of the medical world. His motion that the visits be suspended did not find a seconder, and Dr. Magennis said that he did not expect he would have one. The President pointed out that the Hall had shown their appreciation of the Council's advice by adopting all their recommendations lately promulgated, and the visits of their deputy were similarly intended for the help and guidance of the Hall. The members dropped away after lunch, but the faithful few who remained to the end tendered the usual vote of thanks to the President.

The "New York Commercial" reports that "difficulties in the cultivation of belladonna have been overcome by interspersing plants with rows of scarlet runners, which, shading the herb, cause it to grow rapidly."

Corner for Students.

Conducted by Leonard Dobbin, Ph.D.

Communications should be addressed "Corner for Students, 'The Chemist and Druggist,' 42 Cannon Street, London, E.C."

Qualitative Analysis.

A mixture of not more than three salts will form the subject of the next exercise in qualitative analysis. The mixture will comprise acids and inorganic bases occurring in the British Pharmacopœia, and is to be submitted to a thorough systematic examination, all its constituents are to be detected, and proof is to be given that the substances detected are the only constituents of the mixture.

Students' applications for portions of the mixture of salts (accompanied by a *stamped and addressed envelope*, not a stamp merely) will be received up to Tuesday, December 12, on which day the samples will be posted. Students' reports will be received up to Saturday, December 23. Each report should contain a concise account of the work done, and should include a list of the constituents detected. In this list any substance regarded as an accidental impurity should be distinguished from the essential constituents of the salts composing the mixture.

The analysis announced above forms the second exercise in the analytical tournament for the current winter session. The usual monthly first and second prizes in this series of analyses will be awarded only to apprentices or assistants who are preparing for the Qualifying examination of the Pharmaceutical Society of Great Britain, or of Ireland, which fact *must be attested on their reports.*

Report on November Analytical Exercise.

The powder distributed to students on November 7 contained eight parts by weight of sodium bicarbonate, one part of hydrated sodium arsenate, and one part of potassium nitrate. The calculated composition of such a mixture is:

Na	23.4
K	3.9
CO_3	57.1
AsO_4	4.5
NO_3	6.1
H	1.0
H_2O	4.0
	100.0

Magnesium was present as impurity in small quantity, and there was also a trace of iron. Samples of the powder were distributed to thirty-eight students, and twenty-six reports were submitted for examination. On this occasion there was no single constituent which was detected by every correspondent, nor was there any correspondent who detected every constituent. The failures in the detection of the main constituents were:—(*a*) Metallic radicals; Sodium, 1; potassium, 10. (*b*) Acid radicals: Carbonic, 2; arsenic, 16; nitric, 17. Ten students overlooked the water evolved when the powder was heated in a dry test-tube. This water amounted to about 13 per cent., partly derived from the hydrated arsenate and partly from the decomposition of the bicarbonate. Only fourteen students detected the magnesium present as impurity.

It was intended that this exercise should necessitate the careful and observant handling of some matters which, however, did not in themselves involve any special difficulty. These included the detection of potassium in small quantity in presence of greatly predominating sodium, and the side-by-side recognition of the two acid radicals which were present only in small proportion along with much of the carbonic-acid radical. The flame-test suggested potassium, when steps were taken to cut off the sodium flame by means of blue glass or indigo prism, and at the appropriate stage Carnot's test or any other moderately delicate test gave a sufficiently well-marked potassium reaction to leave no room for doubt as to its presence. The ammonium-molybdate test gave a distinct indication of the presence either of an arsenate or of a phosphate, and pointed to the necessity for special care (*a*) in the treatment of the original hydrochloric-acid solution with hydrogen sulphide, (*b*) in testing for a phosphate in the filtrate after the complete separation of arsenic (if present) by means of hydrogen sulphide, and (*c*) in the observation and interpretation of the results produced by silver nitrate in neutral and in nitric-acid solutions when testing for acid radicals. When the ferrous sulphate and concentrated sulphuric-acid test for a nitrate was applied to a solution of the powder in dilute sulphuric acid, the production of the dark-coloured zone at the junction of the denser and the less dense layers of liquid was not difficult to effect and, if waited for, to

observe. As the figures noted above show, the failures with respect to the three constituents here concerned were very numerous, and point to superficial or over-hasty observation.

The powder dissolved almost completely in water—only a slight turbidity remaining, which was due to the magnesium impurity and was cleared away by hydrochloric acid. Although it was little more than a distinct trace, this magnesium was not missed by so many students as were the nitric and arsenic acid radicals which, together, made up more than 10 per cent. of the powder.

Quite a number of students applied tests intended to distinguish between carbonate and bicarbonate. This is a matter which we always regard as of very little consequence, and, besides, the reagents usually applied are, in most cases, unfitted for furnishing reliable information regarding it. Thus in the present analysis magnesium sulphate was frequently added to a cold aqueous solution of the powder, and because no precipitate appeared, carbonate was pronounced absent, whereas, when the mixture was boiled, a white precipitate was formed, and on the strength of this evidence bicarbonate was stated to be present. These conclusions happened to be correct; but of the students who thus arrived at them, none examined the behaviour of a solution of an arsenate when similarly tested with magnesium sulphate. Had they done so they would have found that, in the absence alike of carbonate and of bicarbonate, it also gave no precipitate in the cold, but that a white precipitate appeared on boiling.

We have been surprised to receive numerous reports of chloride and sulphate as main constituents, since tests applied to considerable quantities of the powder gave nothing but the faintest recognisable indications of the former and none whatever of the latter.

PRIZES.

The First Prize for the best analysis has been awarded to THOS. C. EGAN, c/o T. Clarkson, 14 Tower Street, West Hartlepool.

The Second Prize has been awarded to F. WILDMAN, 53 Bute Avenue, Nottingham.

First Prize.—Any scientific book that is published at a price not greatly exceeding half-a-guinea may be taken as a first prize.

Second Prize.—Any scientific book which is sold for about five shillings may be taken as a second prize.

The students to whom prizes are awarded are requested to write at once to the Publisher naming the book or books they select.

MARKS AWARDED FOR ANALYSES.

T. C. Egan (1st Prize)...	89	Nil Desperandum	62
F. Wildman (2nd Prize)	84	Vingt et Un	62
A. F. C.	83	A. S. Noble	60
Denique	79	Radium	60
Jayjay	79	G. Marsh	57
Unicorn	79	Richmond	50
Samaden	78	F. J. D.	48
Pot. Brom.	77	Beaumont	46
Ulster	77	Rosicrucian	46
Worm Killer	74	Fatty Acid	45
Onyx	72	Hexamine	45
Primus	70	Twinkle Star	30
Nelson	66	Dinah	12

TO CORRESPONDENTS.

A. F. C.—Ferric chloride added to a neutralised solution of the powder should have given a precipitate of ferric arsenate in your hands as it did in ours. Probably your solution of ferric chloride contained too much free hydrochloric acid.

Denique.—Note that heating may interfere with rather than promote the precipitation of ammonium magnesium phosphate, since this substance is more soluble in hot water than in cold.

Jayjay.—It is difficult to understand how you failed to detect the arsenate by means either of ammonium molybdate or of silver nitrate if these reagents were properly applied.

Unicorn.—The precipitate which silver nitrate produced in a neutral solution of the powder could not be described as yellow. It was distinctly if not pronouncedly brown, and strongly suggested silver arsenate.

Samaden.—The test for a nitrate by means of copper and sulphuric acid is not sufficiently delicate to indicate small quantities, not to mention traces. You should practise upon the ferrous-sulphate test, and, for minute traces, the alizarine test.

Pot. Brom.—We could give very little credit for your report of "arsenate or arsenite as impurity." Having detected arsenic, you should have made a point of ascertaining with certainty the form of combination in which it was present.

Ulster.—The general remarks and some of the preceding replies bear upon several points regarding which your neat report is not quite accurate.

Worm Killer.—Neutralising "roughly" by means of sodium hydroxide the nitric-acid solution of the powder to which silver nitrate had been added was not very safe as a test for an arsenate, since sodium hydroxide gives a dark-brown precipitate with silver nitrate; solution of ammonia would have been a safer reagent to employ. Lithium carbonate is by no means insoluble in water; the B.P. says 1 in 80.

Primus.—The precipitate produced by lead acetate and mistaken for lead sulphate probably consisted of lead arsenate, and that produced by ammonium molybdate was due to the arsenate.

Nelson.—It was a mistake to conclude that oxalates, for example, were absent because the precipitate produced by silver nitrate was brown while silver oxalate is white, since a brown precipitate might be mixed with a good deal of a white one without the latter being separately recognisable. The calcium you detected probably came from tap-water.

Nil Desperandum.—Having obtained a precipitate with hydrogen sulphide, your failure to recognise it as due to arsenic is remarkable, while your supposed detection of antimony is to us inexplicable since your method, as described, seems to be correct. Examine reagents and practise upon known solutions until you ascertain the source of error. Could the concentrated hydrochloric acid have contained some nitric acid?

Vingt et Un.—The magnesia-mixture test, properly applied, should not have failed to produce a precipitate of ammonium magnesium arsenate.

A. S. Noble.—Note that the colour imparted to the alcohol flame by boric acid is green—not blue.

Radium.—Apparently you overlooked the facts that the yellow arsenic-group precipitate which dissolves in solution of ammonium carbonate is *arsenious* sulphide, and that therefore its solution in ammonia could not give, with magnesia mixture, a precipitate of ammonium magnesium *arsenate*.

G. Marsh.—The evolution of water when the powder was heated in a dry tube should not have escaped your notice. Note that the absence of a black sublimate in this test does not prove the absence of arsenic in the form of arsenate.

F. J. D.—If, as you report, silver nitrate gave a curdy white precipitate with the nitric-acid solution of the powder, the nitric acid employed evidently requires attention.

Fatty Acid.—It is insufficient to describe the flame-coloration test and then add that all other dry tests were negative, since we are left in the dark as to which tests you actually tried. Other students obtained various positive results which you do not mention.

Hexamine.—Your report is a model one so far as system is concerned, but many of the observations recorded are incorrect. Learn to observe more accurately, and do not approach the next analysis on the assumption—whence derived we do not know—that the powder contains "not more than three chemical substances all of which are mentioned in the B.P. 1914."

Twinkle Star.—Your assertion that formates would give off carbon dioxide on the addition of sulphuric acid is erroneous. The odour which you supposed to be that of acetic acid was due simply to carbon dioxide.

Dinah.—We note the unsatisfactory conditions under which your experiments were made, and we have awarded marks for the tests applied rather than for the conclusions arrived at.

Irish News.

Subscribers are invited to send to the Editor newspapers containing matters of trade interest. The items should be indicated.

Brevities.

The pharmacy of Mr. J. W. Harvey, Ph.C., 31 Great George's Street, Cork, was flooded last week to the depth of twelve inches, and much damage done by the water.

Dr. J. C. McWalter, M.A., LL.D., Ph.C., has written a "History of the Worshipful Company of Apothecaries of the City of Dublin," of which for two years he was Governor. This is a book of 166 pages, and is published by E. Ponsonby, Ltd., Grafton Street, Dublin.

Mr. J. E. Connor, Ph.C. (S. Connor & Sons, Newry), last week admitted the public to see the show of chrysanthemums at his residence at Warrenpoint. There were over 300 plants on view, and we are told that blooms measuring 12 in. across were not exceptional. A collection is made from visitors for the benefit of the British Red Cross Society.

English and Welsh News.

Subscribers are invited to send to the Editor newspapers containing matters of trade interest. The items should be indicated.

The Drug Club.

The annual meeting of this body was held at Cannon Street Hotel, London, E.C., on Tuesday, December 5, when Mr. Charles Dunn was elected President, in succession to Mr. Charles A. Hill, B.Sc., Ph.C., and Mr. Roger M. Harvey succeeded Mr. Dunn as Vice-President; while Mr. T. Edward Lescher was re-elected Hon. Secretary. Mr. Dunn is a partner in the business of Geo. Curling, Wyman & Co., Bunhill Row, and Featherstone Street, London, one of the old drug-businesses of the City, which was established in the eighteenth century. Mr. Harvey is one of the directors of The British Drug Houses, Ltd., having been a partner in Barron, Harveys & Co. when that business was amalgamated in the "Tetradome." Mr. Lescher took up the secretarial work of the Club from Mr. Hill, and the Drug Club continues the tradition of keeping a good Secretary in that office as long as it can.

Early Closing and Bank-holidays.

The Home Secretary announces that it has been decided to suspend the Early Closing Order made on October 27 under the Defence of the Realm Act for the period from Thursday, December 14, to Saturday, December 23, both days included. An amended Order to this effect has been issued. Other amendments of the Order will allow the sale of periodicals and books to long-distance travellers from bookstalls at such terminal and main-line railway stations as may be approved by the Secretary of State. The sale of sweets and ice-cream will not be allowed after January 1 in theatres later than in the case of shops. To remove doubts that have arisen it will be made plain that provisions can be sold at works canteens and on railway trains without infringing the Order, and that the Order does not apply to bazaars and sales of work for charitable or other purposes from which no private profit is derived. In regard to the bank-holidays which have been postponed this year, a regulation is published in the "London Gazette" which makes it lawful for the King to direct by Proclamation that all or any classes of employés who have been deprived of a holiday to which they were by statute or agreement entitled, or which they have been accustomed to receive, shall, subject to any exceptions and conditions that may be contained in the Proclamation, be given an equivalent holiday, and any employer failing to comply with the provisions of any such Proclamation shall be guilty of a summary offence against the regulations.

Royal Institution.

The ninety-first illustrated Christmas course of six juvenile lectures, founded at the Royal Institution in 1826 by Michael Faraday, will be delivered this year by Professor Arthur Keith, M.D., F.R.C.S., LL.D., F.R.S., his title being "The Human Machine which All Must Work." The first lecture is on December 28, at 3 P.M. The following are among the lecture arrangements before Easter: Professor C. S Sherrington, six lectures on "The Old Brain and the New Brain and their Meaning, and Pain and its Nervous Basis"; Professor W. E. Dalby, two lectures on "The Structure of Metals"; Professor F. G. Donnan, three lectures on "The Mechanism of Chemical Change"; Professor A. Dendy, two lectures on "Sponges: A Study in Evolutionary Biology"; Professor J. A. Fleming, two lectures on "Modern Improvements in Telegraphy and Telephony." The Friday evening meetings will commence on January 19, when Professor Sir James Dewar will deliver a discourse on "Soap-bubbles of Long Duration."

Birmingham.

Methylated spirit has risen to 1*s.* 3*d.* per pint retail in this city.

Birmingham surgical-appliance makers are unusually busy, and are making a great feature of artificial limbs, which they show in their shop-windows.

The charges of the Birmingham City Electric Department are to be increased by 30 per cent., and gas is to be increased from 2*s.* 3*d.* to 2*s.* 4*d.* per 1,000 feet.

Cuxson, Gerrard & Co., Ltd., have given five guineas towards the "Birmingham Daily Mail's" Christmas Tree Fund, which provides boots, dinners, and comforts for the poor.

Mr. Simpson, a retired corn-merchant, has died, leaving a fortune of 10,029*l.* His firm was one of the first in Birmingham to obtain the licence to sell agri-horticultural poisons.

The Birmingham Pharmaceutical Association's December list of minimum prices of drugs and proprietary articles shows twelve alterations in the prices of drugs, seven in proprietaries, and three in packed goods. The prices of bottles are also altered, up to 8-oz. being 2*d.* each now, and larger sizes proportionately higher up to 7½*d.* for a 40-oz. bottle. Mr. Henry R. Marshall, 128 Alcester Road, Moseley, is Hon. Secretary of the Committee that prepares and publishes the list.

Two men, including a chemist whose name does not appear on the Register of Chemists and Druggists, were at the Birmingham Assizes on December 4 sentenced by Mr. Justice McCardie to pay fines of 50*l.* each and costs of the prosecution for conspiring to bribe the recruiting officer and the doctor who examined recruits in Birmingham. Since the proceedings were commenced the chemist had been examined by the Medical Board and passed for home service, his card being marked "Not for military duties, but for substitution."

Liverpool.

Women and girls are making tours of the retail trade seeking in vain to buy glycerin, the demand for which has increased suddenly owing to the short spells of frost varied by rather heavy rainfall. All that can be offered is a combined preparation provided by the British Pharmacopœia.

Christmas window-displays again tend to be confined chiefly to articles acceptable to members of the Forces, such as can be included in the parcels sent by organised effort to the Army and Navy. "Comforts" are being collected for in every large office, in Local Government areas, and by religious bodies of all denominations.

The City Council is urging the Local Government Board to make the suppression of quackery and quack advertisements part of the campaign to mitigate the social evil. The Health Committee recommends that Sick Benefit under the National Insurance Act should be given to sufferers from venereal diseases where the doctor in attendance thinks it necessary.

In view of the shortage of sugar for medicinal syrups and household use the anomaly of keeping open hundreds of sweet shops for seven days a week is glaring. The bright lights of these shops vie with those of the multiplying Sunday photographic studios, both being a great attraction to young people who might well be spending their war-inflated earnings to better purpose.

Mr. Harold Wyatt, of the Merton Pharmacy, Bootle, is proving highly helpful to some fellow pharmacists who receive prescriptions written in France for the British troops or nurses there, which have to be dispensed again on their return to Liverpool. In some cases he has elucidated the prescriptions through the telephone, and in others made up the medicine while a special messenger has waited.

The municipal medical officer of health (Dr. E. W. Hope) has issued his proposed scheme for the diagnosis and treatment of venereal diseases in conformity with the order of the Local Government Board. "Public opinion on the subject," he states, "has become more enlightened and sober." He sketches the present and outlines future extensions of treatment at the various hospitals to which patients may resort, most notably at the Royal Infirmary, whereunto seamen are especially directed on certain days of the week. A free supply of salvarsan or its equivalent will be available at the laboratories of the city bacteriologist (Professor Beattie). Forms are supplied (1) to be sent with specimens sent for bacteriological examination, (2) to be handed to seamen found suffering from venereal disease.

Manchester.

The growing scarcity of sugar is becoming a problem with many chemists, very few wholesale houses having any to offer. One is able, occasionally, to find a house that will sell small quantities of syrupus simplicis, prices quoted to-day ranging from 7*d.* lb. Chemists are glad to have it even at that price.

During last week-end there was quite a panic among small shopkeepers in Manchester owing to the action of the Watch Committee in informing all shopkeepers that they must not open on Sundays. Several drug-stores and chemists were called upon by police officers and informed that they must not open on December 3. However, at the last moment the Order was cancelled, and in Wednesday's paper the Chief Constable explained why.

A clever, if somewhat out-of-the-way, window-show is to be seen in a suburban chemist's window. It consists of a red single chest-protector hung on one side of a sign-post, which points to "the old way," and on "the new way" sign is hung a piece of capsicum tissue. A neat showcard

also states, "Better try the new way; it is better, and only costs half as much." The remainder is filled with boxes of capsicum tissue, hot-water bottles, and other winter requisites.

Sheffield and District.

The friends of Mr. J. Thompson Appleton, Sheffield, will be surprised to hear that, in spite of his many duties, he has found time to take his medical Preliminary and First Professional examination. Mr. Appleton is a member of the West Riding and Sheffield Insurance Committees.

A large gathering of public men and officials attended the funeral service of Councillor E. F. Hind. After the committal, the Oddfellows' form of service was read by the Grand Master of the Order. Among the representatives was Mr. J. Weldon, dispenser to the Chesterfield Medical Association, and Mr. G. W. Meadows, representing the Town Clerk of Sheffield (Mr. W. E. Hart), who is Clerk to the N.E. Midland Pricing Bureau, of which Councillor Hind was Chairman.

Some confusion has taken place through the advertisement of the new hours of closing shops, the hour being fixed at 10 P.M. for Saturdays. Several tradespeople read this as the time allowed for Saturdays, overlooking the hour of 9 P.M. fixed by the Defence of the Realm Act, which must be adhered to. Chemists in the working-class districts are complaining that, while closing their shops at the fixed time, several traders keep open for the sale of herbal drinks and supply drugs, etc., to the usual customers of the chemists. Particulars of such sales should be sent to the local pharmaceutical officials.

South Yorkshire was the main centre of the old glass-industry of the country, which Sheffield University is now fostering in a really good way. It is to receive an income grant of 1,500*l.* a year from the Advisory Council of the Privy Council, and hopes to receive help from individual glass-manufacturers as well as from the trade associations. The University has also received grants for equipment: 1,500*l.* from the Advisory Council, 2,000*l.* from the Glass Manufacturers' Associations, and 3,000*l.* from the Ministry of Munitions. It has secured a substantial amount of property adjoining the Applied Science Department for the necessary buildings.

Miscellaneous.

The Early-closing Association has decided to be registered by the Board of Trade as a corporate body.

Keighley Education Committee has accepted the tender of J. J. Griffin & Sons, Ltd., for chemicals and apparatus (59*l.*).

The Dispensing-counter Light in Mr. J. F. J. Cammack's pharmacy, 30 Webb's Road, Battersea, was the means of getting him fined 40*s.* last week for infringement of the Lighting Order.

Medicated Wines.—The West Gloucestershire area has had extended to it by the Central Control Board the Order respecting the sale of medicated wines as mentioned in the *C. & D.*, December 2, p. 44.

Opium was Seized in large quantity by Customs officers in the premises of Shu Shing On (24), in Limehouse Causeway, and this man was remanded on a possession-charge at Thames Police Court on December 6.

Bovril for 5,000 Men has been presented by Princess Alexander of Teck, President of the Home Defence Comforts Fund, to that body, whose Hon. Treasurer is Mrs. Fairclough, 9 Moreton Gardens, S.W.

Fredk. Boehm, Ltd.—The "Daily Mail" of November 30 and December 6 contained critical articles in regard to this chemical and pharmaceutical company carrying on business at 16 Jewry Street, London, E.C.

Heber Jonathan Mason, drug-store proprietor, Harrogate, was examined at York Bankruptcy Court on Friday, December 1, in regard to his failure, nothing material being added to what we have already published (*C. & D.*, November 25, p. 42).

Egg-powder and Self-raising Flour.—Sanders Bros., Stepney, were at Old Street Police Court, London, on December 6, fined 5*l.* for selling egg-powder which contained 0.28 grain of arsenic per pound, and 20*s.* for selling self-raising flour which was not self-raising.

Venereal Diseases.—The Middlesex County Council has made preliminary arrangements with regard to carrying out the regulations respecting venereal diseases. Grants to hospitals are to be made, and 5,000*l.* worth of salvarsan or approved substitutes is to be given to medical practitioners, district medical officers, and medical officers of Poor-law institutions.

British Salvarsan.—Speaking at a meeting of the Governors of the London Hospital, on December 5, regarding the provisions made there for syphilis treatment, Lord Knutford said that whereas two years ago the treatment was almost entirely by the German drug salvarsan, the French and English substitutes are now quite as successful as the original German products.

Bleaching-powder.—The Ministry of Munitions has appointed a representative Committee, called the Bleaching Powder Users' Committee, under the chairmanship of Colonel Alan Sykes, M.P., to advise and consult with the Munitions Department as to the needs of the users of bleaching-powder. All users of bleaching-powder who are experiencing difficulties in obtaining their supplies are requested to communicate with the Secretary of the Committee, 4 Norfolk Street, Manchester.

Poisonings.—During the week a Canadian officer, Major J. R. Meredith, was found dead in bed at the Regent Palace Hotel, London, W., and at the inquest it was found that he had died from an overdose of "Somnos," a prescription for which had been given him by Captain Jordan, Canadian A.M.C.—A case of fatal poisoning from ammonia is reported from Skipton, where Esther Stell drank a quantity while of unsound mind.—A case of poisoning from trinitrotoluene is reported from Wandsworth.—At Woolwich the jury returned an open verdict at an inquiry into the cause of the death of a young woman named Chedzoy, who had taken some capsules, which a medical witness stated he was not aware were employed to procure abortion.

Scottish News.

Subscribers are invited to send to the Editor newspapers containing matters of trade interest. The items should be indicated.

Edinburgh.

Creosoting of timber has been started by a Leith firm, using substantially the same process as has long been employed in the East of London.

Principal Sir Alfred Ewing presided at a largely attended meeting held in the University on Monday for the purpose of discussing some of the topics and problems treated in the "Imperial Studies" course of lectures. He himself said they had realised that it is quite impracticable to jog along in the old way, leaving the Colonies and Dependencies freedom to manage their own affairs, and requiring nothing from them as contributions towards national defence, and at the same time allowing them no say in the big questions of politics which affected national defence.

It is alleged with some approximation to truth that over 22,000 insured persons in the Edinburgh area have not yet selected a panel doctor. This means a considerable loss to chemists, who, unlike doctors, have no bonus from persons who do not arrange for medical treatment. After the beginning of next year it is likely that chemists' accounts in the same area will be paid in full in one payment every month, about the end of the third week, instead of receiving 90 per cent. of their account early in the month, and the remainder with the next month's 90 per cent. payment. This will simplify account-keeping to both the Insurance Committee and the chemists.

Glasgow and the West.

Insurance dispensing chemists in the City are paid their accounts in full every month. They may get a bonus for this year.

An excellent war exhibition has just been opened in the McLellan Galleries, Glasgow, on behalf of the Red Cross. Of chief interest to chemists is the casualty clearing-station, where demonstrations are given of first-aid, dressings and appliances, and the pharmaceutical articles used in the relief of the wounded.

A correspondent of the "Glasgow Herald" calls attention to the fact that the late Sir William Ramsay, K.C.B., F.R.S., began his chemistry training in the laboratory of Mr. R. R. Tatlock, public analyst for Glasgow, and he mentioned this fact in a short autobiography which he contributed to "Vergangenes und Kunstiges ans der Chemie." Sir J. J. Dobbie, principal Government chemist, mentioned the fact in an article which he contributed to "Good Words" in 1900.

The extent to which this country depended upon Germany for supplies of standard chemicals for laboratory purposes has been realised with great and increasing acuteness as the war has progressed, but a development of much importance has been made by an explosives company in the West, which indicates that dependence upon the enemy is not likely to recur in that section of chemical industry. The business is now producing for laboratory purposes such chemicals as Germany previously specialised in, and some which, prior to the war, Germany alone produced.

Legal Reports.

Pharmacy Act, 1868.—Before Judge Bray, at the Bloomsbury County Court, on December 6, Mr. R. O. Bird, Crownhill Road, Harlesden, was summoned by the Pharmaceutical Society, under Section 15, for the illegal sale of lysol and veratrine. The Society's summons was really for the recovery of 5*l.*, the penalty provided. The defendant denied the sale, and stated that the shop was Beal & Co.'s, the business being his wife's. Mr. Quarrell, for the Society, conducted the case, and witnesses proved the purchase, his Honour deciding in favour of the Society, with costs, defendant to pay 30*s.* a month.

Cashing Cheques.—In the Marylebone County Court, before his Honour Sir W. Lucius Selfe, on December 3, James Wood, dispensing chemist, 172 Westbourne Grove, W., claiming 254*l.* 11*s.* from Marion Grey, a widow, that amount being the sum represented by two cheques he had cashed. Plaintiff stated that the defendant was in the domestic service of a Miss Knight, a dressmaker, who carried on business next door to him. Miss Knight had been a customer of his, and during the past eight or nine years he had cashed cheques for her—hundreds of them. The cheques, the subject of this action, had been presented several times at the bank and were returned marked "No account." These cheques were post-dated three weeks, and were first presented on the one date. He gave full value for them, and Miss Knight's cheques were always honoured previously. She is in Australia. His Honour said the defendant was clearly liable, and there would be judgment for the plaintiff, the amount and costs being payable in fourteen days.

Aerated-water Bottles: Chemists' Use of.—In the Sheriff Court, Edinburgh, last week, Sheriff Maconochie, K.C., gave his decision in the appeal by R. & G. Hay, beer-bottlers, Edinburgh, against the judgment by Sheriff-Substitute Guy in their action against Alexander F. Dawson, chemist and druggist, Edinburgh, for an order to restrain him from putting disinfecting-fluid into their soda-water bottles, reported in the *C. & D.*, July 22, p. 37. The appeal was dismissed, with expenses. In the course of his judgment the Sheriff said the action depended entirely on the question of property, and he ruled that the pursuers had to prove (1) that the bottles were their property, (2) that the defender knew that they were their property, and (3) that, assuming (1) and (2) were proved, they had qualified an interest entitling them to obtain interdict. In his opinion they had failed to prove any of these things. On the whole matter it appeared to his Lordship that the pursuers and the Bottlers' Association had attempted, by adopting a certain practice and by making assertions as to the law in their circular and rules, to place themselves beyond the rules of the law of Scotland with regard to property in movables, and had entirely failed to do so.

Canned Olives.—In the City of London Court, before Judge Atherley-Jones, K.C., on December 1, Mr. Charles F. Gerhardt, dealer in drugs and chemicals, 5 Fenchurch Street, E.C., claimed 17*l.* 10*s.* from Carver Fenton & Co., canned-goods merchants, 19 Eastcheap, E.C., as damages for breach of contract for the sale of fifty cases of bottles of stuffed olives at 7*s.* per case. It appeared from a statement by Mr. Jowitt, on behalf of the plaintiff, that the parties had had dealings together, and the defendants had told plaintiff that they had to sell fifty cases of Manzanilla olives, containing twenty-four bottles each. Plaintiff agreed to take them at 15*s.* 6*d.* per case, a sample bottle being given to him. Next day he sold them at 16*s.* 6*d.* per case, but the buyers found that the sample represented only four of the fifty cases, and plaintiff had to pay them 15*l.* in settlement. The defendants, through Mr. Liversidge, declared that they had sold on sample and inspection. Mr. Misani, manager to plaintiff, gave evidence, stating that Mr. Gerhardt is a Frenchman. Evidence for the defendants was given by Mr. Charles F. Fenton. In giving judgment Judge Atherley-Jones, K.C., said he was not satisfied, in the absence of more definite evidence, that 15*l.* had been fully established as the damage to which the plaintiff was entitled. He thought the plaintiff was entitled to something more than the 2*l.* 10*s.*, therefore he gave judgment for 7*l.* 10*s.*, with costs. He gave leave to appeal.

ERGOT IN CARAWAY-SEED.—An examination of a recent importation of caraway-seed into the United States showed a considerable number of more or less ergotised fruits. Caraway-seed containing ergot is considered to be adulterated under the Food and Drugs Act.

New Companies and Company News.

P.C. means Private Company and R.O. Registered Office.

BRITISH NAPHTHALENE CO., LIM. (P.C.).—Capital 12,500*l.* The subscribers and first directors are E. J. Fawke and H. Griffiths. R.O., 41 Castle Street, Liverpool.

TYREOID, LTD. (P.C.).—Capital 10,000*l.* Objects: To carry on the business of manufacturers of and dealers in tyres and rubber goods, chemical manufacturers, etc. The subscribers are A. Kaye and C. Hunter. R.O., 31 Stamford Street, S.E.

RIDLEY & DIXONS, LTD. (P.C.).—Capital 4,500*l.* Objects: To carry on the business of manufacturing wholesale druggists, drysalters, oil and colour men, importers, manufacturing confectioners, manufacturers of and dealers in pharmaceutical, medicinal, chemical, industrial, and other preparations and articles, etc. The first directors are T. Ridley, A. L. Dixon, and J. Q. Dixon. Solicitors: Saul & Lightfoot, Carlisle.

BRITISH DYES, LTD.—A debenture has been filed. It is dated September 29, and is to secure sums not exceeding 1,700,000*l.* at 4 per cent., charged on the company's undertaking and property, present and future, including uncalled capital. Holders: Sir John Bradbury, K.C.B., the Treasury, Whitehall, S.W.; and Sir Herbert L. Smith, K.C.B.; and Sir Robert E. Cunliffe, Board of Trade, Whitehall Gardens, S.W.

CASSEL CYANIDE CO., LTD.—Including 30,425*l.* brought forward, the net profits amount to 137,102*l.* The directors recommend a final dividend of 2*s.* per share, making 3*s.* per share, less tax, for the year.

JOINT-STOCK COMPANIES.—Notice is given in the "London Gazette," December 5, that at the expiration of three months from that date the names of the undermentioned companies will, unless cause is shown to the contrary, be struck off the Register and the companies will be dissolved: All-Food Products, Ltd.; Anglo-American Kieselguhr Syndicate, Ltd.; Berry's Patent Disinfectant, Ltd.; Burlington Laboratory, Ltd.; Kataro Medicated Air Co., Ltd.; "N.I." Powder (Newman's Insecticide), Ltd.; Natural Tadium Ore, Ltd.; and Pneumosan Chemische Fabrik, Ltd.

BANDOENG QUININE-FACTORY.—The annual meeting of the company owning the Bandoeng Quinine-factory was held at Semarang on August 31 last, when a dividend of 50 per cent. was approved. A question was asked at the meeting concerning a rumour that the directors proposed to allot a new share free to each shareholder. The rumour was stated to be incorrect, but it was announced that the directors were considering the payment of an interim dividend in December and another in April. The amounts could not be stated in view of uncertainty as to the duration of the war.

Births.

FOOTE.—At 16 Kirkhill Road, Edinburgh, on December 1, the wife of James M. Foote, pharmacist, of a son.

FRANCIS.—At Inglesby, The Bishop's Avenue, London, N., on December 4, the wife of Alan Francis, pharmacist (The British Drug Houses, Ltd.), of a daughter.

SMITH.—At Dyce, on November 29, the wife of John Smith, chemist and druggist, of a son.

SUTHERLAND.—At Falconcliff, Dunoon, on December 3, the wife of William J. P. Sutherland, analytical chemist and pharmacist, Modderfontein, Transvaal, South Africa, of a daughter.

TAIT.—At 15 Seymour Street, Dundee, on December 5, the wife of J. Nicol Tait, chemist and druggist, of a daughter.

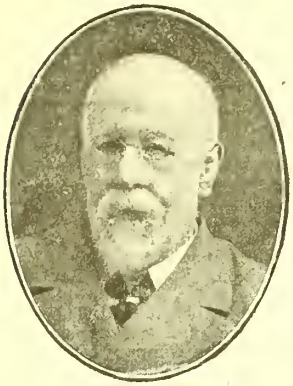
Marriages.

MCGREGOR—BRUNTON.—At Jedburgh, on December 1, William J. McGregor, chemist and druggist, Ellon, to Lizzie, elder daughter of Mr. James Brunton, district road surveyor.

TAVENER—WATSON.—At Christ Church, Simla, on October 16, Charles Peach Tavener, chemist and druggist (Frank Bliss & Co., Simla), to Alice Grace, youngest daughter of Mr. R. Watson, Carlingford, Simla.

Deaths.

ALLEN.—At 186 Lordship Road, Stoke Newington, N., on December 6, Mr. Edward Ransome Allen, of Stafford Allen & Sons, Ltd., Cowper Street, Finsbury, London, E.C., aged seventy-five. Mr. Allen was the second son of Stafford Allen, who, with his brother, George Allen, took over the business of May & Allen, which Stafford Allen had founded in 1833, along with Charles May, the Ampthill pharmacist, the latter retaining the place there and Stafford Allen establishing the London branch at North (now Cowper) Street. In the early days of his married life Stafford Allen lived in the house attached to the premises, and there Mr. E. R. Allen was born. After his school training Mr. Allen was indentured as an apprentice with a firm of druggists in a large country town. Subsequently he entered the College of Chemistry, Oxford Street, London, where he had a course of study in chemistry under Professor Adolf von Hofmann, after which he entered the Cowper Street works, relieving in 1861 his uncle, George Allen, who went to Ampthill in order to develop the galenical side of the business. In 1863 his brother, the late William Clarkson Allen, came to share with him the management of the business, and he relieved him of the direct conduct of the manufacturing department. From that time Mr. E. R. Allen took more and more interest in the commercial and financial sections of the business, with which also his son, Mr. Edward Watlock Allen, has been associated for many years, he having become a partner in 1892. Mr. E. R. Allen was at business on Thursday of last week. He was a man who enjoyed good health, and loved an open-air life, being particularly fond of shooting, his last day's sport of this kind being only a fortnight since. He had an occasional touch of asthma, and this prevented him going out with his gun last week. His death makes no change in the Stafford Allen & Sons business. Mr. Watlock Allen has associated with him as co-directors his relatives, Mr. G. F. Allen and Mr. Kenneth C. Allen.



MR. E. R. ALLEN.

BRADBURY.—At 114 Wolverhampton Road, Stafford, on November 25, John Gregory Jameson, infant son of James Alfred Bradbury, aged 5½ months.

DOIG.—At Newport-on-Tay, on December 6, Mr. William Doig, chemist and druggist, aged seventy-eight. Mr. Doig had been ailing for two or three weeks, and last week congestion of the lungs developed, and death resulted on Wednesday morning following upon a shock. He was the oldest chemist in Dundee, having started in business there before August 1, 1868. His pharmacy was in Castle Street for many years, and there he had the largest shipping trade in the town, the pharmacy being contiguous with the docks. There also a goodly number of pharmacists received their training under him—one of them Mr. Robert Butters, who was President of the Pharmaceutical Society of the Transvaal for some years. From Castle Street Mr. Doig removed to the south side of High Street many years ago, taking his son, Mr. John Lyall Doig, into partnership, the business being then carried on as W. Doig & Son, with a branch in Newport-on-Tay, managed by his second son, Mr. W. Doig, pharmacist. Mr. Doig had for half a century been known in Dundee as a public leader, and in due course he became a member of the Town Council and a Magistrate, so that to the end he was "the Bailie" to most people. After the reconstitution of the North British Branch of the Pharmaceutical Society, he became a member of the Executive, and after the retirement of the late J. M. Hardie he was the sole representative of Dundee on it. Mr. Doig became Vice-Chairman of the Executive. A kindly, hard-working man, many of the craft who had their early training in Dundee, and those still in it, will remember him with affection, and as a man who worked well for his Church, for temperance, and for the town.

MR. W. DOIG.

DOW.—In Glasgow, on November 26, Mr. David Simpson, youngest son of the late Maxwell Low, chemist, Dumfries, aged forty-four.

JONES.—At 10 Partridge Road, Cardiff, on December 5, Sarah Jane, wife of Mr. Jabez A. Jones, chemist and druggist.

LINDSAY.—At Aberdeen, on November 28, Mr. John James Lindsay, chemist and druggist, 59 St. Swithin Street, aged fifty-four. He was apprenticed to the late David Mackay, Union Street, Aberdeen, and had experience in London, passing the Minor examination in October 1888. Subsequently he became manager for the late Mr. Broomhead, Ph.C., Aberdeen, and commenced business on his own account in 1893. He was a widower without children.

MAGNUS.—At 378 Sterling Place, Brooklyn, N.Y., on November 16, Mr. Percy C. Magnus, president of Magnus, Mabee & Reynard, chemical and essential-oil merchants, Pearl Street, New York. Mr. Magnus had a stroke of apoplexy from which he died in a few hours. He was a native of Georgia, and in the American metropolis maintained his old interest in that State, being an ex-President of the Georgia Society of New York.

O'BRIEN.—At Sir Patrick Dun's Hospital, Dublin, on November 28, Mr. William Patrick O'Brien, Galbally, Limerick, formerly an assistant with Mr. Wilson, Ph.C., Queenstown, co. Cork.

SMITH.—At Bognor, Sussex, on November 29, Mr. John Jacob Smith, Ph.C., aged sixty-three years. For thirty-five years Mr. Smith carried on business in Liverpool, but owing to ill-health he withdrew five years ago from his pharmacy, 169 Rice Lane, Walton, Liverpool, which has since been carried on by his son (Mr. Gordon Smith) as sole proprietor, under the old style of J. J. Smith & Son. After his retirement deceased lived for a while at Great Crosby, near Liverpool, for treatment; but subsequently he was advised to live in a milder climate in the South, where he passed away last week. He was interred in the family vault at Anfield, Liverpool, on Monday, the service being conducted at the Walton Congregational Church. While in business at Liverpool Mr. Smith acted for thirteen years as Hon. Secretary to the Longmore Lane Council School managers, and formerly he was a director of the London Plate Glass Insurance Co., Ltd. He is held in affectionate regard by many of the senior members of the Liverpool Pharmacists' Association.

SMITH.—At 33 Moorland Road, Scarborough, on November 29, Mr. John Francis Smith, Ph.C., aged sixty-eight. Mr. Smith passed the Minor examination in January 1871, and the Major in March 1872. For many years he carried on business on his own account at Victoria Road, Scarborough, and more recently had been with Henry Chapman & Sons there. He had been in ill-health for some time, and became worse on the Sunday before his death. He has left a widow and three daughters. He was an enthusiastic supporter of the Scarborough Football Club, and at one time was a keen bird fancier, making a speciality of canaries.

STANSWOOD.—At 277 Commercial Road, Portsmouth, on December 5, Mr. John Stanswood, chemist and druggist, aged seventy-seven. Mr. Stanswood was in business before the passing of the Pharmacy Act. A resolution of condolence with the relatives was passed at the meeting of the Portsmouth Pharmacists' Association on December 6.

THOMAS.—On November 28, after a brief attack of pneumonia, Mr. C. W. Thomas, aged thirty-six. He represented John Timpson & Co., Ltd., by whom he was highly respected, and was well known to retail chemists in South London, the Midlands, and Wales. He leaves a widow and family.

Died on Service.

PAGE.—From wounds received in action, Private W. Page, Middlesex Regiment, who was with Boots, Ltd., Watford, before he joined the Colours.

VORLEY.—At the Military Hospital, Millbank, on November 30, William Kenneth Vorley, lieutenant R.F.A., elder son of Mr. Henry Alfred Vorley, secretary of J. Gosnell & Co., Ltd., aged twenty-one. Lieutenant Vorley was educated at Whitgift Grammar School, and after leaving obtained a position in the office of the Royal Mail Steam Packet Co. He joined the R.F.A. as a Territorial before the war, and afterwards transferred to the Transport Section of the City of London R.A.M.C. When war broke out he went in Septem-

ber 1914 to Malta with his Corps, but returned to England in August 1915, wher he received a commission as second lieutenant in the R.F.A., being gazetted first-lieutenant in September 1916. He went to France in March of this year in charge of an anti-aircraft battery of the R.F.A., and came home on short leave of ten days, when sudden illness (internal cancer) occurred. An operation was performed, but it failed. Mr. Vorley's other son is now serving in France as a second-lieutenant in the Royal Irish Fusiliers.

Johnson.—On November 12, from wounds received in action, Second-Lieutenant William Johnson, South Staffordshire Regiment, aged twenty-seven. Mr. Johnson was the elder son of Mr. Richard Johnson, chemist and druggist, Cardigan Road and New Wortley, Leeds, and was educated at Pocklington and Leeds Grammar School. After this he became a pupil to his father, and passed the Minor examination in July 1912. He continued with his father in the Wellington Road business, and his sister, Miss Muriel J. Johnson, also qualified in January 1914. Mr. Johnson enlisted as a private in a local battalion, but was given a commission in June, and went to the Front in July last. Lieut. Johnson was married in February this year, and his widow resides at Stoke-on-Trent.

Second-Lieut. W. Johnson.

Pharmaceutical Society of Great Britain.

Council-meeting.

The monthly meeting of the Council was held on December 6, at 16 Bloomsbury Square, London, W.C. The Councillors present were: Mr. E. White (President), Mr. E. T. Neathercoat (Vice-President), Mr. W. H. Gibson (Treasurer), and Messrs. A. S. Campkin, J. H. Cuff, W. L. Currie, J. W. Deakin, F. J. Gibson, R. L. Gifford, C. E. A. Goode, T. Guthrie, A. Hagon, J. F. Harrington, J. Keall, L. M. Parry, P. F. Rowsell, F. P. Sargeant, H. Skinner, and J. R. Young. Mr. W. S. Glyn-Jones, Parliamentary Secretary, was also present

Deaths.

After the minutes of the previous meeting had been read and confirmed, the President referred to the doath of Charles Umney and David Howard. He said the former had been a very active member of the Society for a number of years, the name of Umney being as well known as any on the Register. He passed through the Society's school fifty years ago, and was afterwards an examiner and auditor. He leaves two sons engaged in the business, who will carry on the traditions of the name. David Howard was not a member of the Society, but was very closely associated with many people in the craft. He also gave an address some years ago to the students on the opening of the Session of the School of Pharmacy. He was well known for his charming simplicity and unswerving uprightness of character. Men of the type of Mr. Umney and Mr. Howard can ill be spared by the country. The Secretary was directed to send letters of sympathy to the relatives.

Restorations and Election.

The name of a chemist and druggist was restored to the Register, and a number of persons were restored to their former position in the Society. One member was elected. Thirty-five apprentices were registered.

Correspondence.

The Privy Council transmitted a copy of a petition of the National Birth-rate Commission praying that lump diachylon be added to Part I. of the Schedule of the Poisons and Pharmacy Act, 1908, and requested that "the matter should be taken into consideration with a view to the passing of the necessary resolution." This was referred to the Law Committee.

Formal approval was expressed by the Privy Council of the appointment of examiners.

The Teachers' Registration Council invited the Society to appoint two representatives to a Conference to bo held on December 16, respecting preliminary examinations. It was arranged that the President and a member of the Board of Examiners should act in this matter.

Finance Committee.

The Secretary then read the report of the Finance Committee, which sat on the previous day.

The receipts of the General Fund since the last meeting were 254*l.* 1*s.* 7*d.*, made up as follows: Penalties and costs, 84*l.* 10*s.*; "Journal," 11*l.* 2*s.* 9*d.*; B.P. Codex, 35*l.* 13*s.* 9*d.*; subscriptions, 27*l.* 6*s.*; registration-fees, 69*l.* 6*s.*; restoration-fees, 1*l.* 1*s.*; ground-rents, 18*l.* 15*s.*; school-fees, 8*l.* 8*s.*; election of Pharmaceutical Committees, 7*s.* 6*d.*; rent, 43*l.* 2*s.* 6*d.*; interest on deposit, 2*l.* 12*s.* 7*d.*; deposit (L. C. & W. Bank), 1,000*l.* After deducting the payments ordered at last meeting there remained a balance of 716*l.* 0*s.* 8*d.* It was recommended that payments be made amounting to 1,654*l.* 13*s.* 11*d.* The balances on the Benevolent Fund are: Current account, 260*l.* 13*s.* 9*d.*; donation account, 117*l.* 15*s.* 11*d.*; Orphan Fund, 78*l.* 7*s.* 2*d.*

The Treasurer, in moving the adoption of the report, said there is nothing which requires special mention. The balance on the Benevolent Fund current account is not so good as at the same period last year, but there is a balance of 78*l.* on the Orphan Fund, whereas last year there was an adverse balance of 7*l.*, which was made up by the President.

The report was adopted.

Benevolent Fund Committee.

The Secretary read the report of this Committee, which recommended grants amounting to 155*l.* 10*s.* to eleven applicants. It was also announced that two annuitants have died since the last meeting.

Mr. Parry, moving the adoption of the report (Mr. Bilson, the Chairman, being absent on account of the illness of his assistant), referred to the death of the two annuitants, who had drawn 1,300*l.* between them and been enabled to live to an old age (one was ninety-one at the time of her death). Special donations had been received from the Ealing Pharmacists' Association of five guineas and from the "British and Colonial Pharmacist" 14*s.* In addition to the grants which had been mentioned, Mr. Parry referred to help from the Casual Fund which had been given to a chemist who had been discharged from the Army through illness, and added that many similar cases would doubtless come before the Committee. He then made some interesting remarks regarding the noble way the old people struggle against adversity before they appeal to the Fund for assistance, and also to some instances where children, and particularly daughters, sacrifice themselves in their efforts to maintain their parents. One case which had been relieved was that of an old lady discharged from hospital as incurable, who, but for the help that was given her by the Benevolent Fund, would be "helpless, hopeless, penniless, and alone."

The report was adopted.

Library Committee.

The report of the Library, Museum, School, and House Committee, which was next read, dealt with matters connected with the School and Research Laboratory, the Christmas holidays, and the reports of the Librarian and Curator. Steps are to be taken to obtain recognition of Professor Smith as a teacher by the University of London. The accounts for house repairs, amounting to 16*l.* 1*s.* 6*d.*, were passed. The draft deed for the Ransom Research Fellowship was approved, and it was recommended that intimation be given that the Society is prepared to proceed to the execution of the document. It was recommended that the Society renew the annual contribution of five guineas to the International Commission for the Publication of Physical Constants and Chemical Data. A communication was considered from the Pharmacists' Volunteer Corps, in which the offer was made to contribute towards the establishment on the Society's premises of a Bacteriological Laboratory for the joint use of the Corps and the School of Pharmacy. It was decided, however, that the objects desired would be attained in another manner. The President is to prepare a scheme for presentation to the Committee, showing what is required for the purpose of equipping the examination preparation-room as a bacteriological laboratory and the teaching staff that would be required.

The President, in moving the adoption of the report, explained that the Ransom Research Fellowship had been founded by Mr. F. Ransom, who offered to provide the funds for a Fellowship in perpetuity. The Fellow would be required to devote his research to drug-growing subjects,

with which branch of pharmacy the donor is especially identified. The income of the trust is expected to be 100*l.* a year; any excess is to be used to defray the expenses of research materials and administration. The draft deed, which is founded on that of the Manchester Scholarship, is perfectly clear, and it is recommended that it be executed without alteration. The thanks of the Society are due to Mr. Ransom for his generosity, and it is proposed to send a letter of acknowledgment. The President then went on to explain the steps that he proposed to take regarding the establishment of a bacteriological laboratory. A scheme is to be drawn up and submitted to the Committee showing the scope of the laboratory, and plans, estimates, and a syllabus will be given, together with particulars of the staff required. The Committee will then be in a better position to appreciate the requirements.

The report was adopted.

Parliamentary Committee.

The report of the Parliamentary and General Purposes Committee was then presented. It was recommended that a deputation, consisting of the President, Mr. Rowsell, and any other member of the Council who desires to be present, should wait on the Sugar Commission in regard to the difficulties experienced by pharmacists in obtaining sugar. Mr. Rowsell also submitted a report of the Conference of the National Council for Combating Venereal Diseases, which he attended as the Society's delegate. This is practically a verbatim report of the proceedings. The Committee having considered this report, recommended that the Home Office be approached and asked to receive the views of the Council before legislation on the lines suggested by Sir Malcolm Morris is initiated for the suppression of the quack treatment of venereal diseases. It was decided not to entertain the suggested affiliation with the Bribery and Secret Commission League. In regard to a complaint against a member, it was decided that in the absence of a satisfactory apology steps be taken to remove his name from the roll of members. Suitable advice was tendered to Mr. Parry regarding a complaint he brought to the notice of the Committee of the relations of Pharmaceutical Committees and Pharmaceutical Service Sub-Committees. The Home Secretary had asked the opinion of the Society regarding the suspension between December 14 and 23 of the Shops Earlier Closing Order made under the Defence of the Realm Act.

Local Associations Committee.

The report of this Committee, which forms part of the report just mentioned, shows that the members also discussed the question of sugar shortage. In regard to the Central Checking Bureau a Sub-Committee, consisting of Messrs. Body, Cuff, Deakin, Rowsell, and Sargeant, was appointed as a Financial Committee. The Committee decided to take no action in the question which had been raised of the use of graduated medicine-bottles. Protests as to the inadequacy of the remuneration for Insurance dispensing were received from the Pharmaceutical Committees of Huntingdonshire and Peterborough. The Leeds Pharmacists' Association suggested the desirability of efforts being made after the war to obtain amendments to the Pharmacy Acts on the lines of the orders at present in force restricting the wholesale distribution of opium and cocaine so that the sale by wholesale of all statutory poisons can only be made to registered chemists (including corporate bodies entitled to carry on the business of a chemist and druggist), medical practitioners, veterinary surgeons, dentists, and any person or corporate body, not being a retailer of medicinal preparations, who uses such statutory poisons in his occupation. This matter was referred to the Law Committee. Another suggestion, by the Buckrose Pharmacists' Association, that the sale of medicinal drugs be limited to qualified chemists, was also remitted to the Law Committee. The Thames Valley Association complained of the inadequacy of the remuneration for Insurance dispensing. The Cumberland Association thought that the retail sale of glycerin should be entirely prohibited. The Burton-on-Trent Association urged that the Society approach all multiple firms and stores and ask them to pay the annual membership fees of all qualified pharmacists employed by them, "and thus set an example to pharmacists who still hold aloof from membership at this time when the Society is so urgently in need of support." The West Ham Association, which has been studying the report of the Royal Commission on Venereal Diseases and its bearing on pharmacy, suggest that the Pharmaceutical Society should take immediate action to promote the training in bacteriology and the preparation of serums and their supply under the national scheme by pharmacists only. The London Association made suggestions for organising pharmacy in view of the negotiations over the terms for Insurance dispensing in 1918. It was resolved to approach the Drug Club in regard to advertisements in price-lists of "C. L." stock mixtures.

The report was adopted.

Superintendents of Written Examinations.

The following were appointed: *London*, Mr. E. White and Mr. Moon; *Edinburgh*, Mr. J. Nesbit and Mr. Donald McEwan; *Manchester*, Mr. H. Kemp and Mr. C. Swinn.

This concluded the public business.

Society of Chemical Industry.

A Meeting of the London Section was held at Burlington House, Piccadilly, W., on December 4, Mr. Arthur R. Ling in the chair. Mr. J. A. Reavell read a paper by Mr. I. B. Horsbaum on "The Production of Nitrate of Soda in Chile." This consisted of a review of the past and present methods of extracting sodium nitrate from caliche, and an account of the newer processes which are being introduced. When the nitrate-beds were discovered in 1809 deposits were worked which contained 80 to 90 per cent. of sodium nitrate. The richest beds in modern times have contained about 50 per cent., but very large deposits exist which only yield 10 to 12 per cent. It is these latter deposits which have now to be worked. The original process of extraction was to boil the caliche in coppers heated by carbonised wood; the use of steam was introduced in 1856, and in 1880 a system of counter-current lixiviation was first employed. Since then labour-saving devices, Diesel engines, and electricity have been utilised, but the poorer material now operated on has necessitated a reconsideration of the basic methods employed. The result has been the introduction of the Butters process and the Gibbs process. The Butters method involves the use of vacuum filters, and although liquors can be produced which can be sent direct to the crystallising-tanks, it appears to be preferable to obtain weaker liquors and concentrate them by evaporation. This method recovers 64 per cent. of the sodium nitrate from the raw material, 50 per cent. being what is obtained in the older methods. The Gibbs process was described in The Chemist and Druggist, June 12, 1915, p. 46, the features being the use of a battery of Kestner evaporators from the first two of which the sodium chloride is separated. The efficiency of the process is said to be 90 per cent. It was stated that by the use of this new method of extraction the nitrate-fields will supply the present yield for over three hundred years. Incidental references were made in regard to the production of iodine. This is at present a by-product, and only a small proportion is recovered from the mother-liquors—it is precipitated by means of sodium bisulphide. The lecturer explained that the system in vogue is to recover iodine in sufficient quantity to last for a few years, and in the interval to throw away the mother-liquors. It was mentioned that iodine in the evaporators used in the present processes is a source of much trouble, as it eats away the metal covers very quickly so that they have to be replaced frequently. The whole of the iodine could be recovered if more uses for it could be discovered.

In the discussion which took place Sir Frederick Nathan mentioned that some iodine is left in the sodium nitrate which reaches this country. Mr. W. F. Reid said that but for the existence of an iodine "ring" that element would be cheaper. There are plenty of uses for it; it is very much wanted in organic chemistry, and much more would be used if it were obtainable at a reasonable price. Mr. T. D. Morson said it is much to be regretted that an artificial price is maintained for iodine, as much is needed for therapeutic purposes. Its use could be greatly extended, particularly now that the supply of bromine is cut off. Iodine should be competing with bromine, and be sold at the same price per pound that it now costs per ounce. Dr. R. Messel asked what amount of iodine is estimated to be contained in the annual supply of caliche. In reply to this question it was stated that there is about 0.1 per cent. of sodium iodate in caliche, which would make possible a production of 200 tons of iodine per annum. Mr. Reavell, in replying to the discussion, referred to the iodine combination. The nitrate-manufacturers are under a bond not to produce more than a certain quantity; much is deliberately thrown away, and the plunder is shared between the manufacturers. He added that the Teutonic element is at the bottom of this "ring," and it is hoped that the English companies at least will, as a result of the war, free themselves from the German incubus.

Observations and Reflections.

By Xrayser II.

Women in Pharmacy

appear to prefer the Apothecaries' Assistants' certificate to the Pharmaceutical Minor qualification, and this may, I suppose, be taken as proof that, generally speaking, they do not propose to make a life-career of pharmacy. If they do, they make a very bad start; if they do not, they are not very formidable competitors with us who do. Pharmacy as a career demands not only all a person's time, but all his energy, and without this it cannot be successful. Now, blink the fact as we may, it is not possible for a woman who accepts the *rôle* nature has designed for her to give her whole time and energy to any business outside of the domestic sphere, and most women do accept and even welcome nature's leading. Business, for them, is either a temporary or a last resource; they wish, and rightly wish, for such a degree of independence as gives them the power of choice or refusal if marriage is offered to them, but very few of them deliberately choose a celibate life, and while the family institution remains what it is marriage is for them

A Disqualification for Business.

It is only in the savage state that women are the chief bread-winners, and even after this war we are not likely to revert to savagery. Woman is the "weaker vessel"—a term which implies no dishonour, but the very reverse, for the weaker vessel may contain the greater treasure—and her industrial position is inevitably determined for her. It is not a question of aptitude or ability, but of natural function, the thwarting of which would disorganise and ultimately destroy human society. I venture to say that not one girl in ten who takes up "a career" for herself does so without at least an *arrière pensée*, and that fact alone, were there no stronger force behind it, would handicap her hopelessly in competition with men. The help women can give us in the rougher work of the world was never more welcome than now, but even now it would be too dearly bought by the loss of the "mutual ordering" of "sire and child and happy mother."

State Socialism

is making rapid headway. The immense sums that are to be spent on the treatment of venereal diseases may well take our breath away, and now it appears that the midwives are to have half their fees paid by the State. We are getting on. As to State treatment of disease, it seems to me that the money would be much better spent were we to make a serious effort to prevent disease being generated and spread. Is it not high time that we recognised the urgent necessity of letting light into the dark places, and teaching our youths and maidens the truth as to the results of licentiousness? If some such step is not taken, the country will go from bad to worse, for it will soon come to be thought that the normal condition is one of disease and to be expected as a matter of course. There are other means than education, but that is the root question which must be faced by our parents, clergy, and teachers, who in the past have too often betrayed their sacred trust.

Artificial Vinegar

is no monopoly of the Germans, for mixtures of dilute acetic acid and colouring-matter, that never saw a wine- or beer-cask, have for thirty or forty years been sold as distilled vinegar or spiced vinegar, while wine vinegar is said to have often been fabricated by distillation from malt vinegar. It is, of course, already a penal offence to pass off coloured dilute acetic acid as malt vinegar or wine vinegar, but I am not sure that the use of the term vinegar alone, or distilled vinegar, would be actionable if applied to mixtures of dilute acid. I certainly hold no brief for the Germans, but it savours of hypocrisy for us to pretend that we in this country have never been guilty of similar practices; and if Mr. Long is going to prevent what in many cases is perfectly legitimate business, he will have his hands very full. Nor do I hold a brief for adulterators, who ought to be soundly punished at every possible opportunity; but I can foresee a fine harvest for the lawyers if a crusade is to be embarked upon on the slender grounds indicated by the question put in Parliament by Captain Bathurst.

Personalities.

Mr. Henry J. Dalgleish has been re-elected a member of the Board of Benevolence of the Freemasons' Grand Lodge of England.

Mr. Firth, qualified assistant with Mr. C. H. Clarke, chemist, Chepstow, Mon., has obtained an appointment in a munitions laboratory.

Mr. W. L. Towers, dispensing chemist, 10 Railway Street, Chatham, was installed M.W.S. of the Palestino Chapter Rose Croix 18°, No. 29, at 10 Duke Street, St. James's, W., last week.

Councillor J. V. Mainprize, chemist and druggist, has been re-elected Chairman, and Alderman L. Mainprize, chemist and druggist, Vice-Chairman of the Bridlington Borough Education Committee.

Mr. J. Hodkinson, dispensing and photographic chemist, 101 Mill Street, Macclesfield, has purchased the business until recently carried on by Mr. J. Wright at 116 Mill Street, Macclesfield.

Mrs. Wood-Smith, of Bedford Park, W., contributed to the "Daily Express" last Saturday a short article on "Careers in Pharmacy and Dispensing." In this she described the Pharmaceutical and Apothecaries' examinations, and expressed the opinion that women will continue to take up this calling of usefulness to the community.

Mr. W. H. Wing, secretary to Snowdon, Sons & Co., Ltd., Millwall, London, E., has just completed twenty-five years' service in the business. He was entertained to dinner at the Holborn Restaurant on November 22, when many members of the staff were also the guests of the directors, who made a presentation to Mr. Wing in commemoration of the event.

Messrs. John C. Umney and Ernest A. Umney and the other directors of Wright, Layman & Umney, Ltd., desire to tender their sincere thanks to many friends who have expressed sympathy with them on the death of Charles Umney. The number of letters received has been so great that it has been impossible up to the present to reply to these personally. Many of the letters express high appreciation of the life and work of Charles Umney, especially his services to British pharmacy.

Information Department.

INFORMATION WANTED.

Postal or telephone information with respect to makers or first-hand suppliers of the undermentioned articles will be appreciated

139/29. Bone soother mounts: actual makers.
143/37. Graves' or Hanford's Golden embrocation.
148/20. Limestone phosphate.
147/40. "Otyl."
145/58. "Nikilgen."
146/16. Helen Cavendish's "Radium" toilet-preparations: present supply.
146/46. "Phlemgo."
148/68. "Shell" dressing.

INFORMATION SUPPLIED.

Inquiries regarding the following articles have been answered. The information as to supply will be given to others who send a stamped, addressed envelope to the Information Department, The Chemist and Druggist, 42 Cannon Street, London, E.C.:

Antitoxine, 141/31
Bandage-winding machinery (Russian inquiry), 139/15
Colophony, 130/641
Colours, ochres, etc., 130/645
French perfumery labels, 143/14
Glycerin substitutes, 131/71
Godfrey's inhaler 134/65
"Menthells," 15/29
Mixing-machines, 101/54
Myrbane oil, 124/24
"Novio" toilet-paper, 118/59
"Oxpara," 145/22
Palmer's "Skin Success" ointment, 133/59
Potassium permanganate, 107/57
"Red Cross" tonic, pills, etc., 141/39
Respirators, 143/13
Savars cubeb cigarettes, 111/39
Sodium phosphate, 143/21
Strontium nitrate, 135/17
"Sulola" hair-tonic, 135/30
Synthetic Drug Co., Toronto: London agent, 146/15
Syrups, medicinal, 141/30
"Vestette" safety razor 140/44
Woods' great peppermint cure, 141/21
Wright's (Sir Almroth E.) blood-collecting pipettes, 136/73
Zinc white, 130/642

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Non-poisonous, disinfectant and deodorant.
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Homogeneous Phenoloid Disinfectant; 18/20 co-efficient.
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Emulsified Phenoloid Disinfectant; 18/20 co-efficient.
"Sanitas Sypol" (Improved Lysol).
"Sanitas Sulphur Candles."
"Sanitas Formic Sulphugators."
"Sanitas Formitas Outfits."
"Sanitas Formigators."
"Sanitas Drain Testers."
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"Sanitas Polishes."
"Sanitas Distemper," for walls.
Peroxide of Hydrogen (Kingzett's Preserved.)

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Crushed Linseed (Mumford's quality, finest obtainable), Whole Linseed, Starch Powders (Maize, Wheaten, Rice and Potato), Glauber Salts, Hypo, Bi-Carb Soda, Sulphur, Fuller's Earth, Tart. and Citric Acids, Cream Tartar, Kaolin Liquorice Pdr. and Juice, Epsom Salts, Boracic Acid, &c., &c. Also 1d. Pkts. Fuller's Earth, Violet Pdr., Starch Pdr., Liquorice Pdr., Nursery Pdr., Boracic Acid Pdr., &c.
Sole Proprietors of "Pylitna Powders." the internal specific for Hæmorrhoids. Special terms for co-operation.
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ART OF DISPENSING. (9th Ed.) 596 pages. 6/-, by Post 6/5.
CHEMISTS' DICTIONARY OF SYNONYMS. 2/6, by Post 2/9.

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Editorial Articles.

Our Diary for 1917.

"With the present number of this Journal a large sheet almanack for 1867 is issued. The convenient arrangement of the Calendar and the utility of the tables will, we trust, make it acceptable to subscribers."

THIS note appeared in THE CHEMIST AND DRUGGIST December 15, 1866, but it was not until a year later that the first *C. & D. Diary* in book form was published. This is the reason why our *Diary* for the coming year is the forty-ninth of the series, not the fiftieth. In these times, when the world's commercial, industrial, and technical activities are subject to conditions created by a war more stupendous than has ever occurred on the earth since the "primordial atomic globule" first saw the light, the production of a business diary like ours is controlled by State or Statutory conditions which the producers may experience, but which are not felt by the users in the same way. We had also to meet unexpected and unprecedented requirements following upon the diversion of male labour consequent upon the Military Services Acts. Thus our binders informed us in July (and they had the experience of many years of the *C. & D. Diary* to go upon) that it would be impossible for them to take the contract for binding the 1917 edition unless we gave them the printed sheets at least six weeks before what we had hitherto done. The result of all these matters was that the production of the *Diary* was so expedited that we began to post bound copies of it to our subscribers abroad in the first week of November. The stream of copies flowed steadily in that direction every day since, and during the past ten days we have been working for

the delivery of copies to our subscribers in the British Islands at home. As in past years, all that our subscribers have to do is to receive the *Diary*, carriage or postage having been paid by us, but if in any case the carrier should make any charge, the subscriber should pay it, take the receipt, and send it to us, when we will refund the money. In the production of the *Diary* for 1917 a dominating idea was the fact that the British Empire is at war, and so far as pharmacy and the chemical and drug trades are concerned, all business men are aware that one of the most common wants is to know "where to get the goods." Happily, countervailing ideas exist among men of business who can supply the goods, and our *Diary* is the medium in which these ideas are expressed. An informative and valuable series of advertisements is the result, and from these we have prepared an exhaustive index, which is printed by itself, as the Buyers' Guide, and a distinct section of the *Diary*. Buyers should always turn to this Guide when they want to know where to get any goods: it will tell them more often than not, putting the inquirer straight on to the advertisement by the dealer or maker. We need not say more on this matter, except that the *Diary* user as buyer should get into touch with the seller. Another matter which shows that the 1917 edition is a War Diary is sufficiently illustrated by the following request which we received last week from a prominent firm of manufacturing chemists and wholesale and export druggists:

"Have you at any time published a list of firms connected with the drug-trade, of enemy origin, who have been sequestered? We think a list of this sort would be very useful to your wholesale friends."

We were able to reply that a list of this nature is contained in the 1917 *Diary*. It begins on p. 212, and gives the name of the concern, the address, the nature of the business, and the name and address of the controller in each case. Our correspondents named half-a-dozen "suspended" businesses, and in referring to our *Diary* list we found every one of them in it. On the same day an old-established pharmaceutical firm asked us how they could get in a ready-reference form all about the cocaine and opium regulations. Again our new *Diary* demonstrates that it has anticipated, the orders issued by the Government and explanatory notes in respect to each article being allied with a special treatise on Pharmacy and Poison Laws. This also meets the wish of the chemists in a certain provincial city for the codification of all the legal regulations that affect the drug-trade and pharmacy which have come into force in consequence of the war. That idea has been uppermost in the minds of those who have prepared the *Diary*, and they have had the help of experts and specialists in presenting the best information. For example, the exposition of the laws and regulations governing the manufacture and sale of alcoholic medicinal preparations has been altered or modified in many directions since the war began, and everything that applies to the drug-trade now is brought into our *Diary*, a legal specialist having helped us in the matter. The same might be said in regard to many other sections of the *Diary*; it is neither necessary nor possible to epitomise here all the good and new things that are in it, but we cannot forget that The Chemist and Druggist's subscribers constitute one of the most important groups of business men in the world, and we know how much they depend upon the *C. & D.* and the *Diary*, the latter as a day-by-day helper, so we have endeavoured to make the 1917 edition a worker. We feared that the early closing for press which war conditions forced upon us might cause some omissions, but happily these are not numerous. We ask subscribers when they get their copies of the *Diary* to turn to the undernoted pages and make appropriate notes in regard to the subjects.

Advertisements.

P. 248. Pearson, Morrell & Co.—For reduced prices of aspirin see this issue, p. 51.

P. 284. In consequence of the increased cost of ingredients after the *Diary* announcement had been put to press, Raimes & Co. found it imperative to revise their prices for Bronchial Wafers as follows:

For any quantity.

In bulk, 3*s.* 3*d.* per lb. net.
In tins (large) 4½*d.*, 3*s.* per dozen net.
do. (small) 3*d.*, 2*s.* per dozen net.

Will readers please rectify on the page named?

P. 292. In the advertisement of the British Cellulose and Chemical Manufacturing Co., Ltd., a comma has been omitted which somewhat alters the purport. Under "Cellulose Acetates Dreyfus" the paragraph should read: "Cellulose in all its applications, especially for the manufacture of non-inflammable and incombustible celluloid, films (cinematograph and others), varnishes and impregnations."

Drug-trade Organisations.

P. 196. Cambridge Junior Pharmaceutical Association.—New Secretary, Mrs. Course.

P. 197. Irish Chemists' Assistants' Association, Dublin: Secretary, Mr. Dillon; Assistant Secretary, Mr. W. A. Batty. Cork: Secretary, Mr. J. French.

P. 197. Glamorgan Valleys Chemists' Association.—*Renamed* Rhondda Valleys Chemists' Association.

P. 198. Newcastle-upon-Tyne Pharmacists' Association.—New Secretary, Mr. S. W. Bowness, 359 Elswick Road.

P. 200. Drug Club.—New President, Mr. Charles A. Dunn.

P. 200. Drug Trade Appeal Fund.—Take out "C. B. Allen" and "C. Umney (Chairman)" from list of trustees.

P. 200. Queensland Pharmaceutical Society.—President, Mr. R. C. Park.

P. 201. Association of British Chemical Manufacturers.—New address, 166 Piccadilly, London, W.

General Information.

P. 201. Board of Trade.—Exhibitions Branch now amalgamated with the Commercial Intelligence Department.

P. 220. Law as to Alien Enemies.—Add: "Sanatogen" and "Formamint" trade-marks avoided by Board of Trade (*C. & D.*, October 21, pp. 44 *et seq.*). Levinstein, Ltd., applied for use of novocaine patents and trade-mark.

P. 353. Glycerin control.—Ministry of Munitions notice (*C. & D.*, October 28, p. 39).

P. 355. Cocaine control.—Anæsthetic solutions can be sold to unregistered dental practitioners until December 31, 1916 (*C. & D.*, November 4, p. 35). See also this issue p. 34.

P. 381. Early Closing Order under Defence of the Realm Act (*C. & D.*, October 28, p. 38, and November 4, p. 43).

Influenza.

It is again rife among us, and threatens to become epidemic, if it is not so already. Everything is not influenza that goes by the name, however; not to speak of the diplomatic influenza to which high personages are peculiarly liable, but which occurs, too, among humbler people, there are the "influenza cold" and the variety known as *la grippe*, which is now said to bear the same relation to true influenza that English cholera does to true cholera. Most recorded epidemics of influenza have reached their maximum in the second year; there has then been a gradual decline until the ninth year, when a recrudescence almost equalling the maximum has taken place. It was so with the epidemic which began in 1847, and with the next after it, the much more formidable one which began in 1889. This was the time that the knowledge that most of us have of influenza really began, and some are of opinion that the epidemic has never died out—in other words, that what is going about now is the same old thing, but it has got as far down as the kidneys, pains in the renal region being typical of the present season's epidemic, in certain parts of the country. One cannot forget that one's attacks since 1889 have rarely been in one part of the body, but that all have been stamped out by brisk treatment, beginning with a liver-pill at night along with something sudorific just on going to bed, a good saline next morning, and rest in bed while anything like a temperature is indicated. It is interesting to note that in this country influenza has never attacked anything like the same percentage of persons as in Continental countries, and has never, therefore, paralysed business and thrown the whole social order out of gear to the same extent. In the worst years of the worst of recent epidemics 50 per cent. of the population of Petrograd are said to have have been affected, in parts of South Germany from 50 per cent. to 75 per cent. The London percentage was

estimated at 12½. It is to the number of persons attacked rather than to the virulence of the disease that so many deaths are due. The name *influenza* was first given specifically to this disease in 1743, when it raged in Italy, and from there spread all over Europe; before then any epidemic supposedly due to astral influence (as most epidemics were) was so called. The term "Russian influenza" dates from 1889, that outbreak having begun in Eastern Russia, which is believed to be its natural home, but some authorities think that China is the place of its origin.

Imperial Research Trust.

Since the outbreak of war various steps have been taken by the Government to place the industries of the country on such a basis that they will be enabled in future to withstand German competition. The idea has gradually been crystallising that the basis of industrial progress is the adaptation of scientific research-work to industrial conditions. Several Committees have had this matter in hand, with the result that the Government has now decided to form a new Department of Scientific and Industrial Research, under the title of the Imperial Trust for the Encouragement of Scientific and Industrial Research. This body is to receive a Royal Charter, and a large sum of money is to be placed at the disposal of the Department, to be used as a fund for the conduct of research on a co-operative basis for the benefit of the national industries. The scheme was explained by Lord Crewe to a deputation of the Board of Scientific Studies which met him and representatives of the Committee of the Privy Council for Research and the Advisory Council on December 1. The scheme contemplates that each industry will form an Association to deal with research problems, or that existing Associations will create Research Committees representative of the particular trades. To these trade Committees grants will be made by the Government towards research-work, Lord Crewe stating that a "very large sum" will be devoted to this purpose for the next five years. The trade Committees, it is also expected, will receive contributions from members of the industries, and to encourage these payments it has been decided that the Board of Inland Revenue shall treat them as trade expenses, and in this way exempt the money from deductions for income-tax. The condition is attached to this concession that the contributions must not give the trader a proprietary interest in the property of the Association. A certain proportion of relief from excess-profits tax will also be granted to traders making contributions towards research. It was stated that a substantial gift has already been made to the Trust by two members of the Institution of Mechanical Engineers for the conduct of a research in mechanical engineering. A start has also been made in connection with research designed to establish a scientific basis for the introduction of systematic economy in the use of fuel. Lord Crewe, in his reply to the deputation referred to, also mentioned that a new method of making grants to technical schools is to be inaugurated, and there are to be larger grants to local authorities for educational purposes. Special attention is to be devoted to the training of teachers in technical subjects, and more scholarships are to be granted to enable students to pass through the Universities. There are problems connected with pharmacy in which research is needed, and doubtless the Pharmaceutical Society, the British Pharmaceutical Conference, the Drug Club, or kindred bodies will take steps to form the necessary Research Committees which are contemplated by the new Imperial Research Trust.

Insets.

Since its earlier days, the *C. & D.* has inserted in certain of its issues special forms of advertising now known as insets. Our Publisher is arranging for the insertion of a series of these in the Winter Issue of The Chemist and Druggist, to be published on Saturday, January 27, 1917. We ask those interested to write to him for the printed particulars which he furnishes for the guidance of printers.

Glycerin Trouble.

The Director of the Propellant Supplies Branch of the Ministry of Munitions of War, writing in regard to the note in the *C & D.*, December 2, p. 44, concerning the suggested Defence of the Realm Order, states that

"The Department is very desirous that the restrictions should be adopted by chemists without the need of any further official action, and it is not without hope that the patriotism of the chemists themselves will secure this result. The Department has already received much gratifying proof of the desire on the part of chemists and druggists to be of assistance in this connection."

Happily the Pharmaceutical Council has not this week resolved to ask the Department to pass the Order referred to, and we trust that publication of the above extract from the letter will encourage all retailers and compounders not to use glycerin in toilet-preparations nor sell it for toilet-purposes. It is most desirable that everything should be done to prevent an Order being passed, and it is apparent that the Department will not act in the matter if it gets the help of the trade.

Arrivals of Drugs and Chemicals.

At the request of the Lords Commissioners of the Admiralty, the Board of Customs and Excise have ordered the publication of Ships' Reports to be discontinued for the present. A list of ships arriving will be published daily under the heading "Ships Entered Inwards," and cargoes will appear under the classified heading of imports in two sections—*i.e.*, entries of goods duty free and entries for warehousing and duty paid. These entries are furnished by the importers to the Customs and Excise, and as they are made up from the shipping documents in possession of the importers, the figures may be taken as correct. We call attention to this fact because the list of arrivals of drugs, chemicals, and allied products which we print on p. 54 is for the first time compiled from these importers' entries, whereas formerly such lists were compiled from the ships' manifests, and the liability to error was greater. The countries specified are the countries from which the goods are consigned, the ports being now omitted. It will now only be possible to indicate imports under the classified headings, many drugs and chemicals being described as "unrated" or "various." We cannot close this without a note of satisfaction. The returns have shown and are demonstrating that British commerce overseas keeps up its splendid reputation, and there is nothing in the returns which favours the views of some pessimistic people.

The Sugar Question.

We referred last week to the difficulty dispensing chemists have in getting sugar, and reported that Sir J. T. Agg Gardner, M.P. for Cheltenham, had put a question about the matter to the Chancellor of the Exchequer. The hon. member now writes to us:

"I recognise that the regulations of the Sugar Commission press hardly on the chemist and druggist industry, and I think they should be relaxed, but I do not consider that my technical knowledge of the matter is sufficient to enable me to take a prominent part in pressing the Government to reconsider the existing regulations, more especially as there are in the House of Commons direct representatives of the industry who would be better able to safeguard its interests."

Mr. Glyn-Jones was no doubt in the hon. member's mind, but the Parliamentary crisis prevented him doing anything in the House of Commons; but it will be noted that the Parliamentary and Law Committee of the Pharmaceutical Council has resolved to send a deputation to the Sugar Commission about the matter. It was unfortunate that those who asked Sir J. T. Agg Gardner to put his question confined this to lozenges; there are many more syrup formulas in the British Pharmacopœia, and many other formulas for medicinal preparations in which sugar is an essential. We sent lists of these to Sir James, and he at once realised the technical nature of the subject, which is exactly what the Sugar Commissioners and the Chancellor might also do, if they knew the facts.

Annotations.

COCAINE IN DENTISTRY.—The remarks made on this subject by Sir Donald MacAlister, K.C.B., in his Presidential address at the opening of the General Medical Council session last week, deserve to be given in full. We accordingly supplement our reporter's summary with the following paragraph from the address as issued by the Council:

"The anomalies of the existing situation in the United Kingdom have been forcibly brought to the notice of Government and Parliament in connection with the attempts to protect our Forces and the public against danger through the indiscriminate use of drugs like cocaine. As long as any unregistered and unqualified person may call himself a 'person practising dentistry,' or call his shop a 'dental surgery,' and in virtue of this assumption claim to be supplied with the drug from the nation's stock, so long will the best-intentioned efforts to regulate the supply, or to restrict its use to instructed and responsible practitioners, encounter difficulties that may prove insuperable."

It will be observed that these remarks are in sympathy with the Government restriction upon the treatment of unqualified dental practitioners as if they had a qualification resembling that of registered dentists.

* * *

NARCOTICS FOR INDIA.—The Department of Commerce and Industry of the Government of India has issued a revised list of the substances and preparations which are exempted from Customs and Excise restrictions on the conditions mentioned in the *C. & D.*, August 12, p. 45.

1. Mist. hepatica composita.
2. Pigment. cocainæ et hydrarg. perchloridi.
3. Ampoules containing cocaine in admixture with adrenalin, hemisine, or epinine, when labelled by the makers as containing not more than one-third grain of cocaine in each ampoule.
4. Coca cordial
5. Elixir damiana composita
6. Ixidama and other similar palatable preparations
7. Kola compound
8. Kola cordial
9. Tonic coca wines

   } when labelled by the makers as containing not more than half a drachm of ext. cocæ liq. in each fluid oz.

10. Cocaine hypodermic and other tablets:
    (*a*) Homatropine and cocaine.
    (*b*) Atropine and cocaine.
    (*c*) Pilocarpine and cocaine.
    (*d*) Aromatic throat tablets containing menthol, myrrh, krameria, and cocaine $\frac{1}{32}$nd gr.
    (*e*) Aseptoids, Dr. Macnaughton Jones, each containing $\frac{1}{16}$th gr. of cocaine hydrochloride.
11. Ointments containing cocaine or other derivatives of coca in admixture with other drugs and rendered nauseous to the taste.
12. Ophthalmic tablets when labelled by the makers as containing not more than $\frac{1}{20}$th gr. of cocaine hydrochloride in each tablet.
13. Other preparations containing cocaine or other derivatives of coca in admixture with other drugs, when labelled by the makers as containing in the aggregate not more than such specified percentage of cocaine hydrochloride or other derivatives of coca per tablet, trochiscum, pastille, solube, sterule, onule, lamella, or fluid drachm as will render it impossible for any such preparation to be taken for the effects of cocaine or any other derivative of coca alone.

This is the list that we published on August 12, but three alterations have been made on it, including deletion of ext. cocæ liq. and cocainæ hydrochlor. $\frac{1}{12}$ gr. tablets.

A WHOLESALE FIRM have received from their North Wales representative an anecdote indicating that the youthful mind has been permeated with domestic talk about Zeppelin raids. The typical small boy pushed up two pennies and several soiled fingers to the edge of a pharmacist's counter-ease with a "Please, mother wants two penn'orth of anti-aircraft guns." For once the chemist felt at sea, and so he sent the urchin home to have his message revised and put on paper. After a long interval, the second-standard one returned with a pencil scrawl reading: "Anti-septic gums," and throat-pastilles of this class were exchanged for the twopence.

Westminster Wisdom.

By the "C. & D." Parliamentary Representative.

THE PARLIAMENTARY CRISIS.

Owing to the Parliamentary crisis and the reconstruction of the Ministry, the House of Commons adjourned on Monday evening until Thursday, December 7.

EARLY CLOSING ORDER.

The Home Secretary announced on Monday that he is issuing an amending Order suspending entirely the Early Closing Order from Thursday, December 14, to Saturday, December 23, both dates inclusive.

PANEL CHEMISTS' CLOSING-HOURS.

In the House of Commons on Monday, Mr. Yeo asked the Comptroller of the Household (Mr. C. H. Roberts, M.P.), as representing the National Health Insurance Commissioners, whether, in view of the fact that in many districts chemists, since the recent Early Closing Order, refuse to open after 8 P.M. for the dispensing of medicines for panel patients, he will take steps to extend the closing-hour of chemists' shops to 9 P.M. on the other weekdays besides Saturday, particularly having regard to the fact that many insured persons are now working at a long distance from home and until late in the evening, and are thus unable to have the medicines dispensed overnight, and they leave home before the chemist opens in the morning.—Mr. Roberts replied that he has received representations on this matter, and is consulting the Home Secretary.

Insurance Act Dispensing.

A Record of matters concerning Chemists' interests in the National Health Insurance Acts.

Reports from Local Centres.

ENGLAND.

Bournemouth.—The Medical Benefit Sub-Committee has decided to inform the chief sanitary inspector of the new clause in the chemists' agreements for 1917 regarding the taking of samples under the Sale of Food and Drugs Act, and also to send that official representations of the Pharmaceutical and Panel Committees that it would be unfair to take for analysis samples of the "C. L." stock mixtures. At the meeting when the report was presented Dr. Hart asked the reason for exempting stock mixtures, and Mr. Milward replied that the mixtures are not exempt, but owing to the fact that they contain sediments, and are made up in bulk, it was felt that the test would not be just. Mr. Bilson said he had frequently protested against the use of stock mixtures. In his opinion it is not possible to maintain the exact proportion of the ingredients in portions of stock mixtures. Councillor Webb proposed that the recommendation referring to the analysis of stock mixtures should be deleted from the report, but on putting this to the meeting it was lost. The report was then adopted.

Burnley.—The statistics of the cost of prescriptions submitted at the last meeting of the Insurance Committee are as follows:

Year	Scripts	Cost £	s.	d.	Average d.
1913	43,716	1,701	5	8	9.34
1914	39,810	1,443	19	8	8.71
1915	27,408	736	0	6	6.44
1916	27,965	630	13	0	5.41

Leicestershire.—The Insurance Committee has received a complaint from three large approved societies that medicines are difficult to obtain at Fleckney, and demanding that a dispensary be established. The Committee has promised to consider the matter.

Middlesex.—A meeting of the Insurance Committee was held on December 4, Mr. W. S. Glyn-Jones, M.P., in the chair. On the recommendation of the Finance and General Purposes Sub-Committee the sum of 3,311*l.* 10*s.* 7*d.* was directed to be paid to chemists, and a sum of 246*l.* to the Joint Committee for the Pricing of Prescriptions.

Plymouth.—A meeting of the Pharmaceutical Committee was held on November 29, Mr. Ancliffe in the chair. Messrs. Ancliffe, Park, and Roper tendered their resignations, as they considered their services on the Pharmaceutical Service Sub-Committee a waste of time. After a *résumé* of the recent investigations into the alleged inaccuracies of dispensing for insured persons on the part

of certain firms, the persistent ignoring of the findings of the Sub-Committee by the Insurance Committee was very strongly commented upon by all three representatives. In consequence the following resolution was carried unanimously:

Considering the unsatisfactory manner in which the Plymouth Insurance Committee have received the statements of the chemists' representatives and the unwarranted hostile attitude of the Committee towards chemists, the Pharmaceutical Committee feel that no other course is open to them but to resign as a protest.

It is understood that several firms have resigned their contracts with the Insurance Committee, and the new panel being without representation it behoves them to meet as soon as possible to appoint a Committee to watch their interests.

Portsmouth.—At the meeting of the Insurance Committee on November 30, complaints were made as to the cost of the prescription-pricing scheme which was forced upon the Committee by the Commissioners, who told them that the cost of the scheme would not exceed what the Committee had previously paid for checking prescription-pricing. The Committee paid 40*l.* in 1915, whereas for 1916 the charges amount to 220*l.* This had produced a deficiency in the accounts. It was agreed to remind the Commissioners of their undertaking as to the cost. The Medical Benefit Committee reported that the Pharmaceutical Committee had asked that the dispensing-hours be shortened, as the chemists desire to close at 8 P.M. The opinion of the Panel Committee is to be asked in this matter. In regard to the new clause in the agreement with chemists for the supply of drugs for analysis, the Pharmaceutical Committee pointed out that the size of bottles varies, and that while this does not affect the patient it might prejudice chemists when samples are taken for analysis. The observations of the Pharmaceutical Committee are to be formally recorded on the minutes.

Sheffield.—At the meeting of the Insurance Committee on December 6, the Clerk reported that he had asked the Commissioners to forward the lower half of the record-cards of certain practitioners, in order that the request of the Pharmaceutical Committee for an investigation as to the extravagant orders of certain practitioners for dressings during the year 1915 may be proceeded with. The Commissioners have replied that the record-cards having once been divided into two parts cannot again be correlated. The Panel Committee in these circumstances do not see their way to go further into the matter in fairness to the practitioners concerned. It was resolved, to forward this decision to the Pharmaceutical Committee. It was decided, realising that the 17.4 per cent. inflation imposed upon the panel practitioners and medical Associations is unjust, particularly in view of the large influx of workers into this, the third largest munition area in the country, to make the strongest representations possible to the Commissioners and to other influential persons with a view to a reduction or deletion of the percentage. Among the payments ordered were 18*l.* 8*s.* in settlement of certain chemists' accounts for 1914; 2,318*l.* 15*s.* 7*d.*, balance of chemists' accounts for 1915; 109*l.* 3*s.* 3*d.*, payment to doctors for dispensing; and 6*l.* 10*s.*, balance of account for dressings. The payments for September of this year (821*l.* 17*s.* 7*d.*) were also authorised.

Southport.—At the last meeting of the Insurance Committee a report was received from the Medical Benefit Sub-Committee, in which it was stated that the Panel Committee agree in principle with the payment of special dispensing-fees for after-hours prescriptions, but only agree to a fee of 6*d.* per prescription marked "Urgent" and dispensed after 8.45 P.M. The Pharmaceutical Committee had proposed a 1*s.* fee for prescriptions dispensed after 8.30 P.M. The matter is to be further considered.

Suffolk, East.—At a meeting of the Medical and Sanatorium Benefits Sub-Committee of the Insurance Committee held at Ipswich, on November 28, a statement was made regarding the supply of expensive drugs. It had been stated publicly that the Insurance Committee had given notice to panel doctors not to supply expensive drugs, and that the doctors were handicapped in consequence. The Panel Committee has since declared that the statement is untrue so far as the East Suffolk Insurance Committee is concerned. The meeting passed a resolution to the same effect, which is to be sent to the public body before whom the untrue statement was made in the first place.

Notes.

SCOTLAND.

DECEMBER PRICES. — The Scottish Drug Tariff for December shows that the prices of thirty-two drugs have been altered, eight being higher and twenty-four lower. In appending the more important prices for the month we add the prices allowed for the same articles in December 1915:

Name	1916 oz. s. d.	1916 dr. s. d.	1915 oz. s. d.	1915 dr. s. d.
Acetanilid.	0 6½	0 1	0 8	0 1½
Acid. acet. glas.	0 3	0 0½	0 2	0 0½
Acid. acetylsal.	3 3½	0 6	5 11¼	0 10½
Acid. benzoic.	3 5	0 6	1 6½	0 3
Acid. citric.	0 4	0 1	0 4½	0 1
Acid. hydrob. dil.	0 3	0 0½	0 3	0 0½
Acid. salicyl.	0 11½	0 2	1 10	0 3½
Acid. tartaric.	0 3½	0 0½	0 3	0 0½
Adeps lanæ	0 5	0 1	0 5½	0 1
Adeps hydros.	0 4	0 1	0 4½	0 1
Ammon. benz.	3 6	0 6	1 10½	0 3½
Ammon. brom.	0 8	0 1½	1 10	0 3½
Atrop. sulph.	38*s.* 6*d.* dr., 9½*d.* gr.		32*s.* 11*d.* dr., 8*d.* gr.	
Bals. Peru.	2 4	0 4	2 8½	0 5
Bismuth. carb.	1 5	0 2½	1 5	0 2½
Bismuth. oxid.	2 5½	0 4½	2 4	0 4
Bismuth. salicyl.	2 3	0 4	3 6	0 6
Bismuth. subgal.	2 4	0 4	2 11	0 5
Bismuth. subnit.	1 4	0 2½	1 4½	0 2½
Butyl. chlor. hyd. ...	5 4½	0 9½	4 8	0 8
Caffeina	5 7½	0 10	4 2½	0 7½
Calc. glycerophos.	1 5	0 2½	1 1	0 2
Caff. cit.	3 7½	0 6½	2 8½	0 5
Chloral hydrat.	1 7	0 3	1 6	0 3
Chloroform.	0 5½	0 1	0 4	0 1
Cocain. hydroch.	5*s.* 7½*d.* dr., 1½*d.* gr.		4*s.* 8*d.* dr., 1½*d.* gr.	
Collod. bellad. B.P.C. ...	1 3½	0 2½	1 0½	0 2
Creosoti carb.	4 11	0 8½	1 6½	0 3
Ext. bellad. liq.	1 9	0 3	1 2½	0 2½
Ext. bellad. vir.	1 3	0 2½	0 9½	0 1½
Ext. filicis liq.	4 2½	0 7½	2 8½	0 5
Ferri ammon. cit.	0 4½	0 1	0 5½	0 1
Ferri quin cit.	2 0	0 3½	2 1½	0 4
Ferri tart.	0 5	0 1	0 4½	0 1
Guaiacol carb.	17 10½	2 7	7 8½	1 1½
Hexamina	0 6½	0 1	0 10	0 1½
Homatrop. hydrobr.	2*s.* per gr.		1*s.* 9*d.* per gr.	
Hydr. perchlor.	1 0	0 2	0 11½	0 2
Hydr. subchlor.	1 0	0 2	0 11½	0 2
Hydr. ammon.	1 1	0 2	0 11½	0 2
Hyd. c. cret.	0 5	0 1	0 4	0 1
Lin. bell. meth.	0 10	0 1½	0 7	0 1
Liq. atrop. sulph.	4 0	0 7	2 3	0 4
Liq. op. sed., B.P.C. ...	0 8½	0 1½	0 10	0 1½
Lith. cit.	0 11½	0 2	0 10	0 1½
Malourea	11 2½	1 7½	5 4½	0 9½
Methylsulphonal	7 11½	2 7	3 3½	0 6
Naphthol.	2 5½	0 4½	4 0	0 7
Ol. abietis.	1 5	0 2½	1 4½	0 2½
Ol. menth. pip.	1 4½	0 2½	1 4	0 2½
Ol. morrhuæ	3*s.* 6*d.* Imp. pint		2*s.* 10*d.* Imp. pint	
Opium pulv.	4 8	0 8	4 2½	0 7½
Paraldehyd.	1 8	0 3	2 5½	0 4½
Phenacetin.	13 4	1 11	5 7½	0 10
Phenazon.	5 7½	0 10	7 4½	1 1
Phenolphthalein.	12 7½	1 10	3 5	0 6
Pot. brom.	0 10	0 1½	1 9	0 3
Pot. cit.	0 7	0 1	0 7	0 1
Pot. permang.	0 11½	0 2	0 4½	0 1
Pot. tart.	0 7½	0 1½	0 5½	0 1
Pot. tart. acid.	0 2½	0 0½	0 2½	0 0½
Pulv. opii co.	0 7½	0 1½	0 7	0 1
Quin. hydroch.	5 11½	0 10½	6 9½	1 1½
Quin. hyd. acid.	7 4½	1 1	7 0	1 0
Quin. sulph.	4 9½	0 8½	5 11½	0 10½
Resorcin.	17 3½	2 6	5 4½	0 9½
Salol.	2 3	0 4	5 4½	0 9½
Sod. benz.	3 2	0 5½	1 8	0 3
Sod. brom.	0 7½	0 1½	1 9	0 3
Sod. cacodyl.	8 1	1 2	6 8	0 11½
Sod. cit. tart. eff.	0 3½	0 0½	0 3	0 0½
Sod. phos. eff.	0 3½	0 0½	0 2½	0 0½
Sod. salicyl.	1 1½	0 2	1 9	0 3
Sulphonal	4 2½	0 7½	4 2½	0 7½
Syr. chloral.	0 5	0 1	0 4½	0 1
Theob. sod. sal.	7 0	1 0	5 3	0 9
Thymol.	4 6	0 8	5 4½	0 9½
Ung. bellad.	1 8	0 3	1 5	0 2½
Ung. hydr.	0 4	0 1	0 3½	0 1

BOLIVIAN BISMUTH.—The exports of bismuth ore from Bolivia during 1915 amounted to 662,547 kilos., valued at 3,670,453 bolivianos, against 437,751 kilos., valued at 3,376,991 bolivianos, in 1914.

MOROCCAN PRODUCTS.—The exports of beeswax from Morocco during 1915 were valued at 1,181,697f., against 659,537f. in 1913; exports of linseed in 1915 were 2,291,188f., against 541,766f. in 1913; and coriander-seed 1,033,601f., against 549,594f. in 1913.

ADULTERATED MARJORAM.—An examination of a recent importation of marjoram-leaves into the United States showed the presence of finely cut leaves of *Coriaria myrtifolia*, which contains a poisonous principle, and it is recommended that such imports be excluded.

Associations' Winter Session.

Aberdeen.—A meeting of the Aberdeen Pharmaceutical Association was held in Robert Gordon's Technical College on December 5, Mr. A. F. Dugan (Vice-President) in the chair. The question of adopting a minimum retail price-list was discussed at length, and though not considering it advisable as an Association to adopt it, it was thought the list might appeal to individual members who cared to subscribe to it. National Insurance matters, the questionable methods of advertising certain proprietaries, the distribution of certain foods on the Proprietary Articles Trade Association's list, and early closing were also discussed. The following resolution was also carried unanimously:

That this Association, in view of the action of the Pharmaceutical Council in resolving to adopt Mr. W. J. U. Woolcock, Secretary to the Society, as the Society's official candidate in succession to Mr. Glyn-Jones, whilst supporting the policy of Parliamentary representation, desires to enter a strong protest against the policy of a dual capacity, evidently in view. It is of the opinion that the Secretary should devote his whole time to the regular duties of his office.

Birmingham.—The inaugural meeting of the Birmingham Pharmaceutical Association was held at the Grand Hotel on Wednesday evening, December 6. The members and their friends were welcomed by the President (Mr. H. Buckingham) and Mrs. Buckingham. In the course of his address the President recalled the early days of pharmaceutical organisation in Birmingham. It was in 1841 that the first Birmingham Chemists' Association was formed. Mr. Buckingham spoke of some of the prominent pharmacists who occupied the presidential chair of the present Association, since Mr. W. Southall was elected first President in 1869 of the then newly formed Midland Counties Chemists' Association, of which the present Association is the successor. He spoke of the great progress that had been made and the useful work accomplished by the National Health Insurance Acts. This involved an entire change in the character of the Council of the Association and the formation of the Birmingham Pharmaceutical Committee, which represents the interests of panel pharmacists. To a special recruiting Sub-Committee has fallen the arduous, intricate, and delicate work occasioned by the passing of the Military Service Acts in endeavouring to retain a sufficient staff of pharmacists for the needs of the city, and he paid tribute to the smooth way in which the work has been carried out. The Minimum Prices Committee, brought into being by the continued increase in the price of drugs, chemicals, etc., had produced most gratifying results, and the list issued each month to pharmacists, multiple shops, and stores has been most loyally adhered to. Through the efforts of the Hospital Dispensing Committee, the dispensing for out-patients at the General and Queen's Hospitals has been transferred to the chemists—a most desirable arrangement. The result is the placing of practically the whole of the chemists' shops in Birmingham and immediate neighbourhood upon the panel, enabling patients to obtain their medicines at the minimum of inconvenience. Much had been done by organisation and co-operation, but further organisation is, Mr. Buckingham said, essential if pharmacists are to obtain due recognition and due reward for their services. Referring to Mr. Glyn-Jones's retirement from Parliament, he said that it is necessary that pharmacists should have representatives on both sides of the House, but money is needed to effect this. After the address, which was much appreciated, the members had supper, and finished the evening with a musical entertainment.

Blackpool.—A meeting of the Blackpool and Fylde Pharmacists' Association was held at Blackpool on December 1, Mr. J. Laurie (President) in the chair. The Secretary reported that the panel chemists had voted in favour of continuing the pharmaceutical service for 1917. Sunday hours and holidays were arranged for Christmas and the New Year. The Secretary reported that the Military Representative had decided to apply for the cancellation of the exemption certificates of all men of thirty-five years and under. Two members had already received notice that their exemption certificates have been withdrawn, and others will receive similar notice as their names are reached in alphabetical order. The Secretary of the Association, the Chairman of the Pharmaceutical Committee, and representatives of the Insurance Committee had had a conference with the Military Representative, when the latter agreed to give the Association a fortnight's grace before proceeding any further. In the interval all men concerned are to be examined by a Medical Board, and the Pharmaceutical Committee is to furnish information as to the total number of persons engaged in all pharmacies in the borough, their age, sex, qualifications, and in what capacity they are employed. The Pharmaceutical Committee has also been asked to formulate a scheme to keep open the pharmacies of any men called up, and to furnish a list of those eligible for service, in order of preference for calling up. A long discussion followed, and the meeting resolved to recommend members of thirty-five years and under to go to Lancaster to be medically examined, and authorised the Secretary to endeavour to make arrangements for all to go together. All men who are passed by the Medical Board are to furnish to the Pharmaceutical Committee full particulars of their grounds of appeal in order that the Committee may act on their behalf. The Secretary is to send out printed forms asking for the information required by the Military Representative. Ways and means of keeping open pharmacies in the absence of the owners were discussed, and the Secretary was instructed to advertise in the local papers, asking qualified pharmacists who are resident in the district, but are not engaged in business, to communicate with him.

Cardiff.—A meeting of the Cardiff Pharmacists' Association was held at the Angel Hotel, on November 30, Mr. F. Lea in the chair. The following officers were elected for the ensuing year: *President*, Mr. H. Furnival; *Vice-President*, Mr. James Murray; *Treasurer*, Mr. Fred Lea; *Secretary*, Mr. E. C. Harden; *Assistant Secretary*, Mr. A. J. Harris; *Commercial Secretary*, Mr. H. F. Davis; *Committee*, Messrs. Eason, Hague, J. D. Jenkins, A. T. Mogg, J. A. Jones, J. Lee Jones, and (co-opted) Messrs. A. Hagon and Leo Joseph. A presentation was then made to Mr. Joseph Reynolds of a silver tea-service and tray, the President, Mr. Hagon, Mr. J. A. Jones, Mr. Leo Joseph, and Mr. J. Lee Jones speaking very highly of Mr. Reynolds' work for the Association since its inception. Mr. Reynolds, in reply, said he was much surprised at receiving such a handsome gift from his old colleagues. The Cardiff Association is still dear to him, and he had many happy recollections of the pleasant times they had had together. The Benevolent Fund box was placed upon the table by the President, who said he did not wish to interfere with the working of Mr. J. D. Jenkins' scheme. Mr. Jenkins, while not objecting to the box being accepted by the Association, said he did not think the scheme would show the results already attained by the Cardiff scheme.

Chester.—Mr. David Dickinson presided at a meeting of the Chester and District Pharmacists' Association held on Thursday, November 30, when it was decided to extend the present compulsory closing beyond the period fixed under the Defence of the Realm Regulations, and with this object to apply to the local authority for a closing order to become operative next summer. We learn that under Mr. Dickinson's presidency (who has his son, Mr. Kenneth Dickinson, Ph.C., as Secretary), there has been a re-awakening. Many things of purely local interest have been discussed at the meetings, which are well attended. The Association meets on the last Thursday of each month, and all qualified pharmacists in the district are invited to become members.

Ealing.—In connection with the Ealing Pharmacists' Association a whist-drive was held on November 29 at Buol's Restaurant. Nearly 100 players participated. The prize-winners were: *Ladies*—Mrs. Ison, Mrs. Wrench, Mrs. Rayner, and Mrs. James; *Gentlemen*—Mr. J. Keall, Mr. Wrench, Mr. Walsham, and Mr. Williams. The prizes were distributed by Mrs. Skinner, to whom a vote of thanks was accorded. Great credit is due to Mr. Arnold Roberts for the way he organised the entertainment and the success attending it. A sum of at least five pounds will be handed over to the Benevolent Fund.

East Anglian Federation.—A meeting of East Anglian chemists, convened by the Peterborough and Cambridge Associations, was held on November 30, at the Castle Hotel, Norwich, to consider the formation of a Federation of Local Pharmaceutical Associations of the area. Mr. A. Sidney Campkin (Cambridge) was in the chair, and in opening the proceedings urged the importance of unity among chemists, otherwise there is a liability that chemists will be overlooked in future developments in public health matters. Mr. S. F. Barker (Cambridge) said that eleven Associations—Cambridge, Peterborough, Norwich, Bury St. Edmunds, Bedford, Hitchin, King's Lynn, Lowestoft, Great Yarmouth, Ely, and Ipswich—had agreed to join the Federation, and eight other Associations were favourable to the proposal. Mr. J. G. Sturton (Peterborough) then read a paper on "Central Organisation," in which he said the greatest difficulty in promoting federation was inertia. The necessity for organisation has never been more pressing in the history of pharmacy. What organisation can accomplish is seen in the case of doctors, who have been able to get good results for the profession.

Mr. Sturton then considered the question of federation from different points of view, and said that whatever benefited the community would sooner or later benefit the individual. Dealing then with the education of the pharmacist and the class of youths taken as apprentices, he said that if they convinced the public that they are guardians of their safety, the public would insist that the qualification and the remuneration should be of a high standard. Chemists should close their ranks and present a united front, when they would not encounter half the difficulties which at present beset their path. As the result of the absence of organisation pharmacists have had to take on another year of Insurance work on unremunerative terms, because they felt it their duty not to add more burdens to the heavily harassed Government; but he felt that all Associations should have registered their protests, as did the chemists of Ely and Peterborough, on the form of assent. The Chairman, in moving a vote of thanks to Mr. Sturton, said the Pharmaceutical Council had sought to elevate pharmacy to the position of a profession, but had never lost sight of the fact that pharmacists are men of commercial instincts, and could scarcely live out of the professional side of the work. Mr. Percy Robinson (Norwich), who seconded, said he hoped the one-mile Insurance dispensing limit in rural areas would be one of the biggest planks in the programme of the Federation. The motion was carried, and Mr. Sturton replied. A formal resolution was proposed by Mr. O. A. Clark (Bury St. Edmunds), seconded by Mr. H. E. Goddard (Great Yarmouth), and carried unanimously, that the East Anglian Federation of Pharmaceutical Associations be formed, covering the Eastern Counties and the East Midlands. The following officers were then elected: *President*, Mr. A. S. Campkin; *Vice-Presidents*, Messrs. J. G. Sturton, O. A. Clark, and J. F. Collin; *Treasurer*, Mr. J. W. Bodger (Peterborough); *Secretary*, Mr. Chas. Hamson (Peterborough).

Edinburgh.—Mr. J. Adamson presided at the opening meeting of the Edinburgh Chemists', Assistants', and Apprentices' Association held at 36 York Place, Edinburgh, on Wednesday evening, November 29, and gave a presidential address entitled *East and West—an Incompatibility*. In this he endeavoured to show what is wrong in pharmacy. He said we have in it men who should have been something else, such as cranks and faddists, also genuine reformers, but these are few and far between. What is wanted in pharmacy is a leader who would maintain and preserve the rights of every pharmacist. Certain groups want stiffer examinations, to include business methods, bookkeeping, and bacteriology. That would mean restriction on the number entering pharmacy, but it was claimed this would improve matters financially for those in the trade. The disadvantage, however, would be the practical impossibility of obtaining apprentices. They required to go back to the old Preliminary examination—Latin, bookkeeping, and a modern language. Employers should interest themselves in training their apprentices. The Pharmaceutical Society should take interest in apprentices from the beginning, and he put forward suggestions in this regard similar to what Jay Mack said in our Educational number. The Minor examination and views in regard to it were also dealt with, and Mr. Adamson concluded with some remarks on qualified men covering unqualified employers. Miss M. Grant Boag followed with a paper on *Women in Pharmacy*. She spoke at the beginning of the variety of work that women are doing in this war-time, and the keynote of her remarks on pharmacy was revealed in the following passage:

"We want women in pharmacy with a thorough knowledge of all branches of the trade—women who have served their three years' apprenticeship, passed the Minor examination, and are fit to enter into business on an equal footing with men of the same profession. The War Office and Red Cross Society learned only this year the difference between a dispenser with six months' training and a pharmacist with not less than three years' training. Even yet the War Office do not seem to have completely recognised the difference. They have got the length of seeing that there is some difference, and consequently they pay the more highly trained pharmacist a slightly higher wage."

Miss Boag proceeded to advocate that the apprenticeship of women in pharmacy should be the same as that of men; in fact, she revealed little difference between men and women, except that the latter are more tasteful as a rule. She considered that "the woman who opens a pharmacy of her own must have had a good business experience, have cultivated a pleasing manner, and be able to command the confidence of the public. She must also consider the district in which she is settling. If she settles in a good-class district things usually run smoothly; if in a country district, she must have a knowledge of the simple medicines for cattle, sheep, and horses. She must also have a knowledge of weed and vermin killers. Again, if a working-class district is chosen she must have a good all-round knowledge, and is none the worse for a course in first-aid and ambulance work." *Wages and Profits* were the subject of the next paper, contributed by Jay Mack, but it also dealt with labour, wages, the encouragement and training of apprentices and assistants, the keeping of useful books in the pharmacy, and the adoption of modern business principles. Shorter hours mean, he said, less light wasted; he cut off one and a-half hour from the day, and found his gas bill reduced from 60*l*. a year to 30*l*., the business done representing 5,000*l*. of returns. Training of employés results in increased profit to the employer. Jay Mack summed up his views in the following five proposals:

(1) That the examinations need to be remodelled without delay.

(2) That they be made more practical and useful in the daily work of the retailer and in easier steps, even if the finals be higher.

(3) That postal tuition and county scholarships be started to teach the best of the shop-girl class now forming the bulk of the juniors.

(4) That the old Modified examination be revived to get in the best of the valuable unqualified men.

(5) That while higher qualification, and even a University degree in pharmacy, is needed in certain cases, if we continue to force that standard upon all we shall extinguish in twenty years three-fourths of the private retail shops in favour of companies, co-operative stores, and dispensaries, because there will not be any buyers of businesses.

He requested the Association to vote on these, but it was pointed out that the by-laws prevent the motion of resolutions upon which there might be a difference of opinion without previous notice to the members, so the proposals dropped. The President was thanked, on the motion of Mr. Thomas Guthrie (Clydebank), seconded by Mr. W. S. Glass, and the other contributors were also thanked.

Essex.—A meeting of the County of Essex Association of Pharmacists was held on November 30 at 17 Bloomsbury Square, London, W.C., Mr. T. England (President) in the chair. The occasion was specially arranged for an exchange of views with other Associations. The President referred to the resolutions passed at the previous Conference, whereby the Local Associations Executive asked for resolutions to be forwarded to them from the various Associations. It is, he said, the duty of all Associations to carry this out, and to see that such resolutions were not shelved. If the matters are outside the scope of that body, the Associations must see that a body is created to cope with trade questions and the interests of chemists outside those covered by the Charter. At the present time the Secretary is being paid to do their work in relation to National Health Insurance and Pharmaceutical Committee work, and he (the speaker) thought a time might come when his sphere of work will be enlarged so that he could look after chemists' interests in trade matters. Mr. Breese then spoke, and said that panel chemists have miserably failed, especially in their efforts to support their position upon the establishment-charge. He welcomed a time when membership of the Society would be compulsory, and all fees, including kindred subscriptions, would be embodied in the one subscription. Referring to the method of election to the Pharmaceutical Council, he regretted that co-option should be legal. Each member should be elected by the members' vote only, and the Association should work toward that end. Mr. Skinner, who next addressed the meeting, pointed out that much of the responsibility for the future of pharmacy rests with chemists themselves, inasmuch as it is their duty to indicate to the public that the title of pharmacist indicates his ability to be of service upon such questions of the day as microbiology and serum treatment. Such could only be attained by fully educating the young pharmacist upon these matters. It is a matter of regret to him to find that the pass-list of the Apothecaries' Hall exceeds the Minor in the proportion of five to one. The public is not sufficiently educated as to the difference between the two qualifications. He appealed for the federation of areas whose interests were identical. Messrs. Matthews, Kirkpatrick, Jenkin, and Lloyd followed up the arguments of the two speakers. Votes of thanks were given to the speakers.

Leeds.—The Secretary of the Leeds Chemists' Association has called an extraordinary meeting for December 13, to consider whether a person shall be eligible for membership who is not a student, associate, or member of the Pharmaceutical Society of Great Britain.

Liverpool. Mr. W. P. Evans presided at the meeting of the Liverpool Chemists' Association on Wednesday,

December 5, when a paper on "The National Regulation of Prices," by Mr. W. Phillip Want, editor of the "British and Colonial Pharmacist," was read by his deputy, Mr. Want being ill. It dealt with minimum price-lists, and was illustrated with lantern-slides of portraits of those who had assisted in the matter. In the course of the meeting the President referred to the note in the *C. & D.* last week, stating that so far the year had produced an addition to the member-roll at each meeting, and he hoped nominations would be continued. In response, Mr. John E. Greener, Oakfield Road, and Mr. F. Rawson, Smithdown Road, were nominated, and elected. A discussion followed on several complaints by members that competitors outside pharmacy were selling glycerin. Dr. Symes said he had refused a customer of forty years' standing. When the position was explained customers were pleased rather than offended by the evidence of loyalty and patriotism. It was resolved to bring the grievance before the Pharmaceutical Council, and Mr. L. Moreton Parry promised to give effect to the resolution. Votes of condolence with the families of the late J. J. Smith and Pickering Jones (who had died that day) were passed.

London (N.).—A meeting of the North London Pharmacists' Association was held on November 28 at Mr. Hepburn's pharmacy, Enfield. An informal discussion took place on matters such as sugar-supplies and the sale of glycerin, which in some cases still appears to be supplied freely to customers. Strong support was given to the suggestion that the Munitions Department should prohibit the sale of glycerin save for use in medicine.

Portsmouth.—A meeting of the Portsmouth Pharmacists' Association was held at the County Club on December 6, when Mr. W. L. Currie gave an address on "Pharmaceutical Topics." The meeting had been arranged some time ago, but, as the President explained, owing to fixtures in connection with the Volunteer Corps, several active members of the Association were unable to be present. The chair was taken by the President (Mr. Postlethwaite), and there were fourteen other members present. The President, introducing Mr. Currie, referred to the history of the Association since its formation seven years ago, and mentioned the pleasure it caused them to welcome the leaders of pharmacy to the British Pharmaceutical Conference some years ago. Mr. Currie's name, he continued, is inseparable from Insurance matters, and he would like to know whether the suspicion entertained locally that Scottish chemists are getting better remuneration is justified. Mr. Currie, who was received with applause, apologised for the absence of Mr. J. P. Gilmour, who was unable to accompany him, but had promised to make a visit in the spring. Replying to Mr. Postlethwaite, he said that the chemists in England are distinctly and emphatically being paid less for Insurance dispensing than chemists in Scotland. The statement in P.S. 31 is full of inaccuracies, and is merely throwing dust in the eyes of English chemists. In Scotland chemists obtain 33⅓ per cent. profit on drugs and the dispensing-fee. Mr. Sargeant's statement at Leeds which brought down the ire of THE CHEMIST AND DRUGGIST may have had something behind it which he (the speaker) did not know. Ninety-nine per cent. of the Scottish chemists had agreed to come off the panel if their terms were not granted. English chemists are suffering from the effect of central government. Referring to the division of the Minor examination, he had always been wholeheartedly in favour of it. They would have noticed that the passes of the Apothecaries' Hall are twice as many as for the Minor, and unless the Pharmaceutical examination is divided will have labour troubles. He thought a knowledge of bacteriology advisable for chemists, but the practice of bacteriology would be a commercial failure, and it should not be allowed to become an examination subject. Mr. Currie also dealt with the training of apprentices, and mentioned that in his own pharmacy he specialised in the manufacture and dispensing of capsules. Mentioning the cocaine and opium sale regulations, he said he was not sure that the Society was right in acquiescing. The matter should have been looked into closer, and chemists should have had some discretionary power. A discussion ensued, in which Messrs. Sparrow, Brewis, Barlow, Baker, and White took part. A vote of thanks was passed to Mr. Currie.

Ucal Lodge of Pharmacy.—The annual meeting was held at Cannon Street Hotel, London, E.C., on November 30. The Secretaries' and Treasurer's reports were submitted and adopted. The following officers were elected for the ensuing year: *President*, Mr. J. Milner (Greenwich); *Vice-Presidents*, Mr. C. W. Matthews and Mr. J. Hearle; *Secretaries*, Messrs. Evans and Davies; *Committee*, Messrs. Hall, Keith, Payne, Mills, Thompson, Widgery, and Wigginton. Mr. Harold Miller (managing director) was present, and gave an enthusiastic account of the progress made by Ucal this year. A hearty vote of thanks was accorded Mr. Miller.

Wimbledon.—At a meeting of the Wimbledon Pharmacists' Association on November 29, Mr. W. J. Doe (President) in the chair, it was unanimously resolved to institute a luncheon closing-hour. It was left to the officials to find out the attitude of company chemists and those chemists not present with a view of inaugurating the change in the New Year. Resolutions were also passed urging that Drug Tariff prices shall be at the minimum rates quoted in wholesale price-lists, and in regard to military service representation is to be made to the Pharmaceutical Society to see that a man is left for each shop, and that in no case shall a shop be closed that was open before the war.

Trade Notes.

THE GROVE CHEMICAL CO., LTD., Appley Bridge, near Wigan, are makers of a label-paste specially adapted for tins and bottles.

"SECTO" is the name of a product for killing bugs, fleas, moths, beetles, etc. Cupal, Ltd., Blackburn, put it up in 3*d*., 6*d*., and 1*s*. tins, and offer retailers excellent advertising material.

EVERY DESCRIPTION OF VEGETABLE DRUGS is offered by Brook, Parker & Co., Ltd., Nelson Works, Nelson Street, Bradford, who make an announcement in this issue regarding these.

WRIGHT, LAYMAN & UMNEY, LTD., Southwark Street, London, S.E., intimate that their offices and warehouses will be entirely closed for Christmas week—that is, from December 25 to December 30 inclusive.

LIME-CREAM.—Mr. Robert Blackie, Shen Works, Tower Bridge Road, London, S.E., has for years been making a speciality of this preparation, having mastered the principles of combination. He is now offering lime-cream in bulk, or packed as the retailer desires it, at prices which leave good profit.

DUDLEY & CO., Holloway, N., are specialising in Christmas windows, and, as explained in a recent note, have published an illustrated list in colours showing over 100 designs for various kinds of Christmas windows. The Dudley List No. C 288 is full of information and suggestions, and the firm will send a copy of it to any of our subscribers who drop them a postcard.

ASPIRIN, as manufactured by Pearson, Morrell & Co., 6 Station Road, New Barnet, has been reduced in price since the *C. & D. Diary*, 1917, went to press. Their present price for 1-oz. boxes is 2*s*. each, and for 4-oz. boxes 7*s*. 6*d*. each. The firm also supply the product in bulk, as well as in tablet form, and they will furnish particulars and quotations for these on application.

DULCIFLOR SYNTHETIC FLORAL OTTOS, manufactured by Stevenson & Howell, Ltd., Southwark Street, London, S.E., are well adapted for perfuming toilet-preparations in the course of their manufacture, and also are suitable for perfuming toilet-soaps. The company's advertisement in this issue is a beautiful production, sympathetic with the perfumes of the flowers that it represents.

CHEMICAL PLANT.—The Lennox Foundry Co., Ltd., Glenville Grove, New Cross, London, S.E., are well known to manufacturers and chemical experts as producers of chemical plant necessary in the production of chemicals—*e.g.*, salicylic acid and many other organic and synthetic products, as well as inorganic compounds. They will furnish particulars to manufacturers on inquiry.

FREDERICK F. INGRAM CO., 411 Lafayette Blvd., W., Detroit, U.S.A., are the originators of milkweed cream and certain other preparations specified in their advertisement in this issue. Buyers can obtain these from them direct or through the Canadian branch, Windsor, Ontario, the firm offering to send samples of the five products to 100 lady customers of any chemist who buys from them.

PEBECO TOOTH-PASTE.—We recently reported that Lysol, Ltd., Warton Road, Stratford, E., had applied for the "Pebeco" trade-mark, but had abandoned it. The company now inform the trade that they have bought from the Controller of Beiersdorff's business here the remaining assets. They intend to continue the manufacture of this potassium-chlorate dentifrice, and will substitute for "Pebeco" the word "Pebden" as soon as is practicable.

CADBURY'S COCOA.—In referring last week to Cadbury Bros.' special discounts, we erroneously conveyed the impression that the 10 per cent. discount on 2*l*. orders applies to cocoa and chocolate, whereas it refers to Cadbury's and Bournville cocoa only. As they stated in their advertise-

ment the "terms do not apply to breakfast chocolate, 'own name' cocoa, pure cocoa powder, flavoured cocoa powder, dining-room cocoa and loose cocoas, but these may all be used to make up quantities to obtain same."

PEACH-KERNEL OIL, manufactured by Stafford Allen & Sons, Ltd., Cowper Street, London, E.C., is an excellent product, especially suitable for the manufacture of galenical and toilet preparations in which an oil similar in appearance and properties to almond oil is required. It is as pale and sweet as ol. amygd. dulc. Messrs. Allen have more than a generation's experience in the production of this oil, and are able to compete in price as well as quality with the foreign product. Large buyers can obtain samples and price from them on application.

GLYSOL-ROSE.—F. Newbery & Sons, Ltd., Charterhouse Square, London, E.C., have put on the market under the name "Glysol-rose" a preparation which forms an excellent substitute for glycerin and rose-water. It is a pink-tinted liquid of rose odour, which when rubbed on the skin leaves it soft, yet non-sticky, and we understand that it prevents chapping; in fact, it does everything for the skin that glycerin and rose-water does. Messrs. Newbery believe that chemists will find this a good article to handle, and they are supplying it in bulk only at 8*d.* per lb., or 7*d.* by the Winchester quart.

EASTERN FOAM is the title of a new vanishing cream that has been introduced by The British Drug Houses, Ltd., Graham Street, City Road, London, N. It is an alternative to the company's Frozen Foam, but different in composition, and although it is destitute of glycerin it makes the skin soft, which is what is wanted just now. The new Foam retails at 1*s.* under P.A.T.A. conditions, and the demand for it has been so excellent that the manufacturers apologise for delay in meeting orders. They have now, however, made good their shortage in the raw materials, and can meet the demands.

SCIENTISTS' DIARY.—James Woolley, Sons & Co., Ltd., Victoria Bridge, Manchester, have sent us a copy of the "Scientists' Reference Book and Diary" for 1917, which has been published this week at 2*s.* 6*d.* It is in two parts, the first containing in condensed form a large amount of information and physical factors which scientists constantly require to have handy for reference; the second part is the Diary proper, space being devised for daily entries. The whole is enclosed in a leather cover, and measures 5⅝ by 3 in., and forms a convenient pocket-book for chemists, physicists, and electricians. An accident policy is included.

MONOMET.—The White Band Manufacturing Co., Ltd., Progress Works, South Croydon, to whose developing agent —Monomet—we have referred on several occasions, inform us that they have still further improved the product. The sample which we have received is nearly white, and indicates that some progress has been made recently in the direction of producing a chemically pure substance. It appears that the German metol formerly on the market, which Monomet replaces, was not a pure substance, which accounts for the greater economy which users find in employing Monomet and the decreased solubility. It is important, the makers tells us, that Monomet should not be used in stronger solutions than 1½ grain per ounce, otherwise a precipitate of the developing agent is produced in the liquid when the sodium sulphate is added. It is claimed that Monomet gives a pure carbon black with gaslight papers against the less pleasant blue-black of metol. These are interesting talking points which can be utilised by photographic chemists.

Wills.

MR. WILLIAM ACFIELD, chemist and druggist, Gunnersbury, Middlesex, who died on October 5 last, has left estate of the gross value of 307*l.* 18*s.* 3*d.*

MR. JOHN LODGE HEATON, chemist and grocer, Batley, Yorks, who died at Harrogate on August 24 last, left estate of the gross value of 5,263*l.*, of which 2,054*l.* is net personalty.

MR. GEORGE JAMIESON SHEPHERD, Aberdeen, formerly of Souter & Shepherd, wholesale druggists and drysalters, who died on July 12, left personal property in the United Kingdom valued at 40,122*l.*

SIAM GAMBOGE.—During the fiscal year ended March 31, 1915, the exports from Siam amounted to 33.811 lb., valued at 2,383*l.*, compared with 36,307 lb., value 2,664*l.*, for 1913-14, the United States, the United Kingdom, Germany, and France being the purchasers.

Trade Report.

The prices given in this section are those obtained by importers or manufacturers for bulk quantities or original packages. To these prices various charges have to be added, whereby values are in many instances greatly augmented before wholesale dealers receive the goods into stock, after which much expense may be incurred in garbling and the like. Qualities of chemicals, drugs, oils, and many other commodities vary greatly, and higher prices than those here quoted are charged for selected qualities of natural products even in bulk quantities. Retail buyers cannot, therefore, for these and other reasons, expect to purchase at the prices quoted here.

42 Cannon Street, E.C., December 7, 5.30 p.m.

A fair amount of business is being done in the chemical and drug markets with the bulk of changes on a higher level. After the drug auctions next week a falling off in the volume of trading is expected. This shrinkage has already been felt in the produce markets, and, as a result of the political crisis, values of certain speculative articles have been unsettled and tended easier. Among the changes is an advance of 10*s.* per cwt. in Japanese monopoly camphor; refined slabs are somewhat scarce on spot and nominally higher, and English sellers to-day announce an advance of 2*d.* per lb. Sulphur, copper sulphate, saltpetre, and ammonium sulphate are all dearer. Cream of tartar is a trifle easier. Cocaine and strychnine are dearer, the latter owing to a considerable rise in nux vomica. Castor oil and glucose have been dealt in at higher rates, and sandalwood oil has touched a new high "record"; bergamot oil has given way, and lemon is unchanged. Caraway is easier, also genuine wintergreen oil and benzaldehyde. A weaker feeling has also been shown in acetanilide, acetyl-salicylic acid, chloral hydrate, hydroquinone, and paraldehyde. The annual castorum sale will be held next Wednesday. Private advices indicate that the French Government has prohibited the exportation of pharmaceutical products.

Higher	Firmer	Easier	Lower
Ammonia sulphate	Cascara sagrada	Acetyl-salicylic acid	Acetanilide
Arrowroot	Castor oil (Calcutta seed.)	Benzaldehyde	Paraldehyde
Camphor (Jap. monopoly)	Cocaine	Bergamot oil	Wintergreen oil (genuine)
Camphor (ref.)	Glucose	Caraway oil	
Copper sulphate	Linseed oil	Chloral hydrate	
Nutmegs	Phenacetin	Cloves	
Nux vomica	Rape oil (crude)	Cream of tartar	
Saltpetre		Hydroquinone	
Sandalwood oil		Salol	
Shellac		Soda benzoate	
Strychnine and salts			
Sulphur			
Turpentine			

The final drug auctions of the year will be held next Thursday, December 14.

Cablegram.

NEW YORK, December 6.—Business in drugs is active. Opium has advanced to $12.50 per lb. Elecampane-root is easier at 9½c. Canada fir balsam has advanced to $5.50 per gal. Tolu balsam is lower at 35c., and Peru balsam is also cheaper at $3.45. Gentian is easier at 13½c. Morphine and codeine have been advanced by 50c. per oz.

ACETANILIDE is offered at from 2*s.* 8*d.* to 2*s.* 11*d.* per lb. net on the spot, and f.o.b. New York 1*s.* 11*d.* is quoted.

ACETIC ACID.—The position of raw material is unchanged, and there is no reason why the price of acetic acid should have risen out of all proportion. There was a slight scarcity of spot stuff, but several parcels have come to hand and others are arriving, so that the stringency is being removed. Business has been done in 80-per-cent. pure this week for December delivery at 80*l.* per ton ex wharf London, and glacial at 125*l.* in barrels, to come forward.

ACETIC ANHYDRIDE is offered at from 9*s.* 3*d.* to 9*s.* 6*d.* per lb. c.i.f. to come forward as to quantity and seller, and business has been done at about these prices.

ACETYL SALICYLIC ACID of guaranteed B.P. quality is offered at 21*s.* to 22*s.* per lb. net for spot supplies, and to come forward 19*s.* f.o.b. New York is quoted.

AMERICAN DRUGS.—The following are a few current net prices for roots, barks, herbs, etc., mostly for spot delivery: *Barks.*—Bayberry, 8*d.* per lb.; canella, 72*s.* 6*d.* per cwt.; sassafras of root, 11½*d.* to 1*s.*; ulmi fulv. powder, 1*s.* 1*d.*, selected 1*s.* 3*d.*; viburnum prunifol. (tree), 11d. to 1*s.*; wahoo (euonymus), 1*s.* 8*d.* to 1*s.* 9*d.*; witch-hazel, 7½*d.* to 8*d.* per lb. *Leaves.*—Truxillo coca, 1*s.* 4*d.* to 1*s.* 5*d.*; damiana, 9½*d.* to 10*d.*; witch-hazel, 7*d.* to 7½*d.* *Roots.*—Leptandra, 8½*d.* to 9*d.*; kava-kava, 1*s.* 3½*d.* net, to arrive; krameria, 9*d.* to 10*d.*; serpentary, 1*s.* 10*d.* to 1*s.* 10½*d.* per lb.; Mexican sarsaparilla, 10½*d.*; Lima, 1*s.* 8*d.* and Jamaica 1*s.* 10*d.*

AMMON. CARB.—The basis price is 6½*d.* per lb. net for lump.

AMMONIA SULPHATE remains firm. Home-trade price is 15*l.* 10*s.* for December-February delivery. Export prices are: London, prompt, 25-per-cent., 17*l.* 7*s.* 6*d.* per ton net, naked at works; Hull, 24-per-cent., 18*l.* 2*s.* 6*d.*; Liverpool, 18*l.* 7*s.* 6*d.*; Leith, 18*l.* 10*s.*, less 3½ per cent. in bags f.o.b.

ANILINE OIL.—Dealers are getting 1*s.* 2*d.* to 1*s.* 3*d.* per lb., and 1*s.* 5*d.* for salt.

ARROWROOT is dearer at from 3¼*d.* to 3½*d.* for good common St. Vincent; the sales include one thousand barrels at up to 4½*d.* for fine.

BALSAMS.—*Peru* is offered at from 15*s.* 6*d.* to 15*s.* 9*d.* per lb. on the spot, and 13*s.* 10*d.* per lb. on c.i.f. terms for forward delivery. *Canada* is 4*s.* per lb. net. Filtered *Copaiba* B.P. is 3*s.* 9*d.*, Maranham, in casks, is 4*s.* 4*d.*, filtered Para in tins is 2*s.* 11*d.* to 3*s.* as to quantity. *Tolu* is quoted at 1*s.* 8*d.* net for good bright hard.

BENZALDEHYDE, free from chlorine, is easier at from 28*s.* to 30*s.* per lb. net.

BERGAMOT OIL is easier at 17*s.* 6*d.* per lb. c.i.f.

BLEACHING-POWDER.—An intimation by the Ministry of Munitions is referred to on page 38.

BORAX.—A public auction of 1,071 bags granulated borax (in prize) will be held at Liverpool on December 14.

BROMIDES.—Several parcels have arrived, which have eased the spot situation; present values are 7*s.* for potassium crystals and 6*s.* 9*d.* for granular; ammonium is 5*s.* to 5*s.* 3*d.* and sodium 4*s.* to 4*s.* 3*d.*

CAMPHOR.—The Japanese Monopoly have raised their prices by 10*s.* per cwt. for both grades of camphor on c.i.f. terms for forward shipment. The English refiners have advanced their prices to-day by 2*d.* per lb., making bells 2*s.* 11*d.* and flowers 2*s.* 10*d.*, with tablets at the usual proportionate rates. Japanese 2½-lb. slabs are firmly held at 3*s.* 4*d.* on the spot, with small stocks; ¼-oz. tablets are worth 3*s.* 3*d.*

CANARY-SEED is firmly held at from 120*s.* to 125*s.* per 464 lb. for Spanish ex store Liverpool, as to quality.

CAPSICUMS.—At auction 150 bales Bombay offered and 40 sold at 35*s.* for ordinary red and yellow on stalk; also 15 bags fair to good red picked Nyasaland at from 49*s.* to 52*s.*

CARBON TETRACHLORIDE.—In view of the scarcity and difficulty in getting supplies, buyers are turning their attention to trichlorethylene, which is regarded as an effective and cheaper substitute.

CASCARA SAGRADA has been sold at 62*s.* 6*d.* on the spot, with holders firm at 65*s.* for two-year-old bark on the spot.

CASTOR OIL.—Good seconds Calcutta ex store Liverpool is dearer at 6¼*d.* per lb. ex store. Hull make of first-pressing is 68*l.* per ton f.o.b. for December-April delivery.

CASTORUM.—The annual auctions of the Hudson's Bay Co. will be held on Wednesday, December 13, when about 2,000 lb. will be offered. Two other consignments, totalling 1,040 lb., will also be offered.

CHILLIES.—At auction, 74 bags Nyasaland sold at 105*s.* for good bright.

CHLORAL HYDRATE is on the easier side, at from 7*s.* 9*d.* to 8*s.* per lb. net *in bond* for crystals.

CITRIC ACID.—Current values are from 2*s.* 5*d.* to 2*s.* 6*d.* per lb. for prompt delivery.

CLOVES.—Dull and easier, with fair Zanzibar offering at 7½*d.* on the spot; to arrive sellers of December-February and January-March shipment quote 7⅛*d.* c.i.f. d.w.; also January-March delivery at 7⅝*d.*

COCAINE.—The demand has gradually improved, and some important business has been done, chiefly for export; spot supplies of hydrochloride are temporarily scarce, owing to the depletion of stocks, and the price is nominal at 20*s.* per oz.

COD-LIVER OIL.—Our Bergen correspondent writes on November 27 that the market is firm at about 575*s.* per barrel for finest medicinal non-freezing oil. In London finest 1916 Norwegian can be had at 470*s.*, and 1915 oil at 440*s.* net ex wharf.

COPPER SULPHATE is dearer, the usual brands of 98-per-cent. pure offering at from 64*l.* to 65*l.* per ton, but not much is offered.

CREAM OF TARTAR is a trifle on the easier side, 98-per-cent. powder offering at 180*s.* per cwt.

DIAMIDOPHENOL is offered at 26*s.* 6*d.* per lb. net.

ERGOT.—Sales of fair sound Russian have been made at from 1*s.* 7½*d.* to 1*s.* 8*d.* on the spot; for Spanish 2*s.* f.o.b. Barcelona is quoted.

EUCALYPTUS OIL is steady, with 70 to 75 per cent. offering at from 2*s.* 2*d.* to 2*s.* 3*d.* per lb.

FORMALDEHYDE.—Present spot values are from 74*s.* to 75*s.*, and these prices are likely to be maintained for some little time.

GAMBIER is firmly held, block offering in Liverpool (on spot) at 45*s.*, ex store. *Cubes* are nominal.

GINGER.—At auction 159 bags washed Cochin sold at 47*s.* 6*d.* for rough and at 44*s.* for wormy. Privately common to good common Jamaica is offered at from 80*s.* to 85*s.*, and medium to good at from 90*s.* to 105*s.*

GLUCOSE is dearer, American liquid offering at from 33*s.* to 33*s.* 6*d.* per cwt. on the spot, but at these high prices only small sales are being made.

HEXAMINE is offering at from 2*s.* 8*d.* to 3*s.* per lb. net, as to seller and quantity.

HOPS.—Prices of all kinds of English hops, except the very finest, have advanced, as the recent demand has made considerable inroads into the present growth.

HYDROQUINONE is cheaper at from 12*s.* 6*d.* to 13*s.* per lb. net, and f.o.b. New York 11*s.* 9*d.* is quoted.

IPECACUANHA.—During the past fortnight a good business has been done in Cartagena both for consumption and speculation, at from 6*s.* 9*d.* to 7*s.* 6*d.* per lb., and at the close from 7*s.* 3*d.* to 7*s.* 6*d.* is quoted, as to quality. Matto Grosso is plentiful at from 10*s.* to 10*s.* 6*d.*

LEMON OIL.—Sales of a good brand have been made at 3*s.* 10*d.* on the spot, but most holders ask 4*s.*, which is also the quotation to arrive.

MENTHOL is firm, with sales of Kobayashi-Suzuki at 14*s.* perl b. on the spot. Oil of Japan *Mint* has been sold at 4*s.* 3*d.*

METOL is offered at 75*s.* net for spot delivery, and 60*s.* to arrive.

NUX VOMICA is much dearer, and a fair quantity has been sold on the spot and to arrive. Sales of Cochin have been made at up to 30*s.* on the spot, and to arrive up to 34*s.* c.i.f. has been paid.

OILS (ESSENTIAL).—The following are a few current (mostly net) quotations for oils for prompt delivery: White essential Japanese *Camphor*, 65*s.* to 68*s.* per cwt., as to quantity; *Copaiba*, 6*s.* 3*d.*; *Chaulmoogra*, 2*s.* 4*d.* to 2*s.* 5*d.*, as to quantity; *Clove, B.P.*, 5*s.* 9*d.* to 6*s.*; *Juniper wood*, 8*s.* 6*d.*; English distilled *berry*, 55*s.*; finest Mitcham *Lavender*, 79*s.*, and finest French 16*s.* to 16*s.* 6*d.*; *Pine* (pumilionis), 25*s.* per lb.; sibiricus, 11*s.*; natural *Sassafras*, 3*s.* 6*d.*; genuine *Wintergreen*, 12*s.* 6*d.* to 13*s.* per lb.; African *Geranium*, 13*s.*; Bourbon, 11*s.* 6*d.*; French *Spike*, 4*s.* 6*d.*; Spanish, 2*s.* 9*d.*; pure *Neroli*, 10*s.* 3*d.*, and Bigarade, 8*s.* 6*d.*; Paraguay *Petitgrain*, 11*s.* 6*d.* to 12*s.*; French *Rosemary*, 2*s.* 9*d.*; Spanish, 1*s.* 10*d.*; Spanish red *Thyme*, 5*s.* 6*d.*; *Palmarosa* is dearer at 11*s.* 6*d.* per lb. spot. *Gingergrass* is scarce, and 10*s.* per lb. wanted for soluble. Java *Cananga* has been sold at 17*s.* 6*d.*

OILS (FIXED).—*Linseed* is quiet but dearer than last quoted, closing at 53*s.* per cwt. in pipes landed and 54*s.* in barrels. *Cottonseed* is now 50*s.* for crude in pipes, and pale refined in pipes is nominal; for sweet refined in barrels from 59*s.* to 60*s.* is quoted. *Rape* is firm; ordinary brown naked on spot is 54*s.*; British refined in barrels is 55*s.* to 56*s.*, and Japanese in cases is 51*s.* c.i.f. for November-December shipment. *Coconut* is dearer at 64*s.* for Ceylon in hogsheads on spot and 62*s.* in pipes. Cochin on spot is 63*s.* to 65*s.*, and London pressed is 52*s.* to 53*s.* Hankow *Wood* oil is at 75*s.* spot and 65*s.* c.i.f. *Soya*—Hull (spot) crushed is 48*s.*, and in London November-December shipment is 46*s.* 3*d.* c.i.f. Lagos *Palm* is at 48*s.* on spot, and 44*s.* ex quay Liverpool. *Ground Nut* is 52*s.* 6*d.* to 70*s.* per cwt.; *Neat's Foot*, 4*s.* 10*d.* to 5*s.* 9*d.* per gallon; *Lard* oil, 78*s.* 6*d.* to 84*s.* 6*d.*; *Seal*, 40*l.* to 56*l.* per tun; *Whale*, 45*l.* to 49*l.*; bright *Sperm*, 45*l.* to 50*l.*; *Cod*, 40*l.* to 45*l.* nominal; *Olive*, 60*l.* to 70*l.*, all per tun; *Stearine*, 75*s.* to 90*s.* per cwt.

OTTO OF ROSE.—Very limited quantities of finest Bulgarian are offered at 85*s.* per oz. net, but the stock will shortly be exhausted, and as no more will be available,

consumers must of necessity have recourse to French, which is offered at from 50*s.* per oz. net.

Paraldehyde can be had at from 10*s.* to 10*s.* 6*d.* per lb. net for prompt delivery.

Pepper firm but slow, with fair *black* Singapore offering on the basis of 9$\frac{5}{16}$*d.*, Tellicherry 10¼*d.*, and Lampong 9½*d.*; fair Singapore *white* 10½*d.*, Muntok 10¾*d.*, and Penang 10¼*d.*, all spot.

Petroleum.—American on spot is 1*s.* 1½*d.* and water-white 1*s.* 2½*d.* per gal.

Phenacetin.—Several parcels are available on the spot at 100*s.* per lb. net, and with the gradual revival in production the market may slowly ease.

Phenazone.—The large stocks in London have been cleared, and prices are firmer in consequence; from 34*s.* to 35*s.* can be realised for spot parcels to-day.

Pimento.—Quiet, with spot sellers at 3½*d.* per lb.

Potash Iodide.—There are several large export orders on the market. English makers quote 15*s.* per lb., less 5 per cent., and dealers offer American and Japanese at 14*s.* to 14*s.* 3*d.*

Pyrogallic Acid.—Crystals are quoted at 15*s.* and resublimed at 15*s.* 6*d.* net, the latter offering at 13*s.* 6*d.* f.o.b. New York.

Quillaia is steady, Liverpool offering at 42*l.* per ton for lots ex store, and parcels afloat offer at 40*l.* per ton c.i.f.

Quinine.—There has been no revival in the speculative demand, although occasional rumours have been circulated that several important orders have been placed. No doubt there are still some large orders unexecuted in the market, but Dutch sulphate is still obtainable at from 2*s.* 5*d.* to 2*s.* 6*d.* per oz. as to quantity. The landings in London during November amounted to 30,840 oz., and the deliveries to 52,400 oz., leaving a stock of 1,186,000 oz. on November 30, against 1,484,416 oz. at the corresponding period of 1915, or 298,416 oz. less.

Salicylic Acid.—Prices are still sagging downwards, and the various makers find competition increasingly keen; on the other hand, buyers are restricting their purchases from hand-to-mouth. Acid-powder is worth 5*s.* 9*d.* on the spot, and 5*s.* f.o.b. New York.

Salol.—To arrive from New York 10*s.* 3*d.* per lb. f.o.b. is quoted, and spot lots offer at from 11*s.* 6*d.* to 12*s.*, as to quantity.

Saltpetre.—British refined has advanced to 65*s.* per cwt.

Sandalwood Oil has practically touched the 50*s.* per lb. level this week for finest English distilled from E.I. wood from first hands, with second hands offering a limited quantity at a trifle less.

Senega.—The spot price is still 3*s.* net, and to arrive from 2*s.* 10*d.* to 3*s.* c.i.f. is quoted.

Shellac is dearer on spot, with a fair business, usual Standard TN quality selling on a basis of 141*s.* 6*d.* to 142*s.* for fair—an advance of from 4*s.* 6*d.* to 5*s.* on the previous week. E and O A1 fine is 155*s.*, fine Orange 167*s.* 6*d.*, AC Garnet 145*s.*, and blocky G. A. L. 135*s.* Futures are also dearer, the sales including December at 135*s.* to 140*s.* 6*d.*, and March 139*s.* to 144*s.* 6*d.*

Soda Nitrate is firm, ordinary in Liverpool offering at 18*s.* to 18*s.* 6*d.* net, and refined at 19*s.* per cwt. net cash ex store; London is 18*s.* 4½*d.* and 18*s.* 6*d.* respectively.

Strychnine has advanced 4*d.* per oz., the makers quoting B.P. crystals at 3*s.* 4*d.* and powder at 3*s.* 3½*d.* per oz. net; sulphate is 3*s.* 1*d.* net. The other salts have been advanced proportionately.

Sulphur somewhat scarce and dearer on the spot, the value of flowers being 19*l.* to 19*l.* 10*s.* per ton and roll 5*s.* to 10*s.* cheaper, ex wharf.

Tartaric Acid steady at 2*s.* 6*d.* to 2*s.* 6½*d.* for prompt delivery of either powder or crystal.

Turpentine has been active at advancing prices, closing at 50*s.* for American on the spot.

Wax, Bees', is steady, African offering in Liverpool at from 7*l.* 17*s.* 6*d.* to 8*l.* 2*s.* 6*d.* per cwt. as to quality.

Arrivals of Chemicals, Drugs, etc.

The following is a selection of arrivals in Great Britain during the period from November 21 to December 4, inclusive, in the English ports named. Goods in transit are not included:

To London.

Acetic acid (U.S.) 27 brls. 224 cbys.
Aconite (Jp.) 25 bgs.
Agar-agar 25 bls.
Albumen (Ch.) 184 cs., 17,648*l.* (U.S.) 1,320*l.*
Alcohol wood (U.S.) 1,800 gals.
Alunite (N.S.W.) 165 tons
Ammon. brom. (U.S.) 20 cs.
Ammon. phosph. (U.S.) 274 brls.
Anise oil (Ch.) 10 pkgs.
Annatto-paste 2 cs.
Antim. cr. (Ch.) 30 cs.
Antim. ore 1,469 bgs. 300 tons
Apricot-kern. 120 cwt.
Arachis oil 10 cks.
Argol (Fr.) 157 bgs., (It.) 88 bgs.
Arsenio (Aust.) 1,403 cwt.
Balsam peru 4 cs.
Barytes (It.) 283 bgs.
Bayberry bark (U.S.) 21 bgs.
Benzoin (S'pore) 8 cs., (Penang) 20 cs.
Benzyl acetate (U.S.) 7 cs.
Bismuth (Montreal) 10 kgs., (U.S.) 750*l.*
Calc. carbide 12,720 cwt.
Calc. chloride (U.S.) 44 dms.
Calc. citrate (It.) 127 cks., (B.W.I.) 70 cks. 10 pns.
Calumba 50
Camphor (Fr.) 30 cs., (Jp.) 470 cs.
Cascara sag. (U.S.) 757 bgs.
Casein (Fr.) 524 pkgs. 3,195*l.*
Castor oil (B.I.) 337 cs.
Cerium (Fr.) 42*l.*
Chemicals, various (Fr.) 359 cks. 69*l.*
Chloral hyd. 100 lb.
Cinchona (Amst.) 956 bls. 34 cs.
Cinnamon 40 bls. 91 bgs.
Cobalt acct. (U.S.) 7 brls.
Cocaine (U.S.) 1 cs.
Cochineal 10 cs.
Coconut oil 77 pkgs., (R'dam) 240 cks., (Cey.) 1,009 cks.
Coltsfoot-leaves 13 bls.
Copra 8,097 bgs. 5,000 owt.
Coriander (Mor.) 2,794 bgs.
Cottonseed 1,185 tons
Cream of tartar (Fr.) 20 cks. 100 brls., (It.) 50 cks.
Cubebs (Amst.) 15 bgs.
Cumin-seed (Mor.) 11 sks. 37 bgs.
Diethylbarb. acid (Swz.) 2 bxs.
Drugs, unrated (Fr., Switz., etc.) 1,192*l.* (B.I.) 11*l.*, (U.S.) 171*l.*
Ergo apiol (U.S.) 200*l.*
Essential oils, unrated, 50 cs., (It.) 266 cs., (Ch.) 65 cs., (Fr.) 5 cs., (U.S.) 4 dms., (Cey.) 25 dms., (B.W.I.) 3 cs. 2 dms., (U.S.A.) 43 cs., (Jp.) 55 cs.
Eucalypt. oil 40 cs.
Fusel oil (Fr.) 13 cks.
Galls (Egypt) 180*l.*, (Ch.) 3,050*l.*
Gambier 1,520 cs.
Gelatine (Fr.) 65 cs.
Gentian (Fr.) 132 sks. 28 bls.
Glycerin dist. (U.S.) 1,787*l.*
Grape-ju. (Fr.) 3,051 gal.
G. acacia (B.I.) 150 cwt.
G. chicle (U.S.) 24 owt.
G. copal 50 cs. 442 cwt.
G. damar (Straits) 106 cs. 92 bkts. 1,662 cwt.
G. grasstree 46 owt.
G. kauri 964 cwt.
G. lassa 64 bkts.
Gums, undesoribed (Port.) 177 pkgs., (Fr.) 29 pkgs.
Heliotropine (U.S.) 1 cs.
Herbs, dried (Jp.) 38 brls.
Honey (U.S.) 1,100 cwt.
Indigo (E.I.) 214 pkgs.
Insect-flow. (Jp.) 120*l.*
Insect-powder (Jp.) 10 cs.
Kola (Zan.) 13 cwt., (B.W.I.) 70 cwt.
Lime-juice (B.W.I.) 101,097 gal.
Linseed (B.I.) 10,598 bgs., (Ch.) 866 bgs.
Liquoricc (Fr.) 312 cs.
Liquorice - root (Cape) 20 bls., (B.I.) 41, (It.) 18 bgs. 25 bls.
Lithopone 400
Lobelia 7 bls.
Manna (It.) 40*l.*
Mastich 13 cwt.
Menthol 85 cs.
Milk - powder (R'dam) 50 pkgs. 31 cwt.
Milk-sugar (Amst.) 250 cs.
Morph. sulph. (U.S.) 12*l.*
Nutmegs 150 cs. 118 bxs. 140 pkgs.
Oils, fixed: Arachis 300 brls. 125 cks.; fish (Jp.) 1,000 cs.; rape - seed (Jp.) 1,500 cs.; shark 500 cs. 1,500 cks.; soya 1,000 cs.; sperm (Port.) 21 brls., (Natal) 360 dms., (Jp.) 100 cs.; whale 360 dms. 39 cks.
Olibanum 187 cwt.
Olive oil (It.) 15 cks. 8 brls. 36 cs. 6 pps. 7 pkgs. 230 gal., (Fr.) 126 gal.
Omnopon tabs. 1 cs.
Opium (Pers.) 20 cs., (B.I.) 200 cs.
Orris (It.) 55 bls., (Mor.) 4
Papain 1 cs.
Paraphenylene diamine 1 cs.
Pepper (Straits) 5,500 bgs.
Peptone (U.S.) 3 cs.
Perfumery (Fr.) 7 cs. 880*l.*, (U.S.) 599*l.*
Pot. brom. (U.S.) 39 cs.
Pot. iodide (Jp.) 30 cs.
Pot. sulphate 1,000 bgs.
Pyrogallic ac. (U.S.) 3 cs.
Quinine (Holl.) 184 cs. 270,000 oz.
Rape-seed 11,440 bgs.
Rice starch 1,345 cwt.
Roots (E. London) 27 bgs.; leaves and roots (Fr.) 66 bls.
Saccharin 11 cs.
Safflower 152 bgs.
Saffron (Sp.) 1 cs.
Salicylic ac. (U.S.) 5 kgs. 4 brls.
Saltpetre 3,560 cwt.
Sandalwood chips (B.I.) 2,500*l.*
Santal midy 7 cs.
Sarsaparilla (U.S.) 36 bls.
Senna (Suez) 18 pkgs. 10 bls., (B.I.) 597 bls., (Egypt) 15
Sesame - seed 3,500 bgs.
Shellac 1,309 owt.
Soapwort-root (It.) 6 bgs.
Soda brom. (U.S.) 3 cs.
Soda caustic (U.S.) 80 cwt.
Soda hypo. (U.S.) 800 cwt.
Soya - beans 2,400 bgs.
Squill (It.) 40*l.*
Sticklac 88 cwt. 150 cs.
Strontium brom. (U.S.) 72*l.*
Sulphur (It.) 16,500 cwt.
Tannic acid (U.S.) 4 brls.
Tartaric acid (It.) 62 cks. 36 pkgs. 10 brls. 200 kgs.
Terpin hyd. (U.S.) 6 cs.
Terpineol (It.) 110*l.*
Theobromine 2 cs.
Thorium nit. (Fr.) 4,240*l.*
Toilet-powder (U.S.) 1,321*l.*, (Fr.) 256, (Egypt) 38*l.*
Turmeric sp. bulbs 128 bgs.
Tragacanth 135 cwt.
Turpentine (U.S.) 7,350 brls.
Turpentine substitute (U.S.) 20,000 gal.
Ultramarine 21 brls.
Vanilla (Tahiti) 10 pkgs., (B.W.I.) 3 cs., (Cey.) 8 cs.
Verdigris (Fr.) 14 cks.
Wax, bees' (Fr.) 351 pkgs. 36 cs., (Natal, etc.) 81 bgs., (B.E. Africa) 41 pkgs. 198 bgs., (Mor.) 75 bgs., (Port.) 17 bgs., (B.I.) 70 cs., (Straits) 38
Wax, Japanese 100 cs.

To Liverpool.

Acetic acid (R'dam) 80 djhns.
Calc. borate (N.Y.) 9,608 sks.
Casein (Fr.) 20
Chewing-gum 450cs.
Chloral hyd. (N.Y.) 20 pkgs.
Citronella oil (Jv.) 10 dms.
Cubebs (Macassar) 19 bgs.
Drugs, etc. (Fr.) 13 cs.
Essent. oils (Jv.) 25 dms.
Fenugreek-seed 23 bgs.
Glucose 240 brls.
Glycerin (U.S.A.) 49 dms., (N.Y.) 25 dms.
Gums, undesoribed (Jv.) 50 cs.
Honey (N.Y.) 100 brls.
Milk - powder (R'dam) 40 cks.
Palm-kernels 14,903 bgs. 371 tons
Palm oil 726 cks.
Peptone (N.Y.) 10 pkgs.
Perfumery, etc. (Fr.) 572 cs.
Petroleum - jelly 57 cs.
Rosewood oil (Fr.) 3 cs.
Salicylic acid (N.Y.) 10 brls.
Shea-nuts 102 bgs.
Soda acetate (Fr.) 50 bgs.
Thyme-leaves (Fr.) 5 bls.
Turpentine (U.S.A.) 250 brls.
Wax, carnauba 420 bgs.

Index Folio 1232

Correspondence

Letters for this section should be written on one side of the paper only. The writer may adopt an assumed name for purposes of publication, but he must in all cases furnish his real name and address to the Editor.

Use of the Word "Formamint."

[We wrote to the President of the Board of Trade last month asking him substantially if his avoidance of the trade-mark "Formamint" enabled chemists and druggists to sell medicine so called as "known, admitted, and approved" remedies. The reply is appended.]

SIR,—With reference to your letter of November 24, relative to the Order made by the Board under the Patents, Designs, and Trade-marks (Temporary Rules) Acts for the avoidance of the trade-mark "Formamint," I am directed by the Board of Trade to state that the avoidance of the mark leaves traders free, so far as the trade-mark law is concerned, to use the name "Formamint" upon medicine properly so called, but does not relieve such traders from any other liability imposed by law.

I am, Sir, your obedient Servant,

H. FOUNTAIN.

Board of Trade (Commercial Department),
Whitehall, S.W.

Exports Should be B.P. Where Possible.

The Chemical Trade Section of the London Chamber of Commerce (Oxford Court, London, E.C.) desires to give publicity to the fact that the attention of the British exporters of drugs and chemicals has been drawn by a Government authority in Australia to the desirability that all drugs and chemicals exported from the United Kingdom shall be in all respects up to the British Pharmacopœia standards. It is believed that German exporters, before the war, complied strictly with this condition, and it is therefore suggested that if business is to be maintained after the war the correct standard of quality must be strictly adhered to by British firms, especially in view of the probability that enemy countries will, at all costs, make strenuous efforts to renew those business relations which they have temporarily lost.

Lord Rhondda and Sanatogen.

In their advertisement in the *C. & D.*, November 25, The British Purchasers of the Sanatogen Co., 12 Chenies Street, London, W.C., included the following as part of a newspaper extract:

"'I have taken Sanatogen for years,' said Lord Rhondda, in the course of an interview yesterday, 'and since the war began I have tried several substitutes, but I have found none of them as good as Sanatogen.'"

Southall Brothers & Barclay, Ltd., in their Vitafer advertisement in the *C. & D.*, December 2, page 7, replying to this said:

"Evidently he has not tried Vitafer."

We have received a letter from *Mr. W. G. Asquith*, written for The British Purchasers, in which he says:

"As the point is raised by themselves, we should like to say through your columns that their product was in fact one of the substitutes which Lord Rhondda tried."

Extract of Liquorice.

S. Scott (Kuala Lampur) wrote some time ago for a reference to extract of liquorice which we had published. This was on October 30, 1915, p. 51. Writing on October 26, 1916, he says:

"I must thank you very much for your favour of July 4. 'Abel Scholar' is correct! The process is simple, and does away with messing. Parcel-posting the ground root in 14-lb. lots does away with a great many disadvantages resulting from importation of the prepared article, liquid or solid. It would probably be expecting too much of the gentlemen who control the Pharmacopœia to adopt simple procedure therein. We, in one of the outgates, some of us wanderers and some not, are wondering, often wondering, whether our England will awake all round and alter many things that need altering! All Englishers—outside England—are thinking as Australia thinks."

Subscribers' Symposium.

For interchange of opinion among "C. & D." readers, and brief notes on business and practical topics, especially new ideas.

Glycerin Substitute.

Ajax (91/19) asks: "Is glycol much used medicinally, and could it be used as a substitute for glycerin, since it possesses some degree of sweetness and is an alcohol allied to glycerin?" [Glycol, or ethylene alcohol, is a colourless liquid with the consistence of thin syrup, free of smell, but having a sweet taste. It is mixable with water and alcohol in all proportions. Glycol is prepared from ethylene bromide, which in turn is made by passing ethylene into bromine. Ethylene is contained in coal-gas to the extent of 4 or 5 per cent., and is generally made for experimental purposes by the decomposition of alcohol by means of sulphuric acid. So far as we are aware no records exist as to the physiological action of glycol. The question of cost is also a factor which would have to be taken into consideration.]

A Rare Baby.

"The appended postcard was handed to me the other day. I must confess that I was rather at a loss to know just what to do or supply. It was the first request of its kind that I remember getting. Probably some of your many readers may state what they would have done under the circumstances. I supplied a small quantity of weak belladonna ointment, and I have since heard that the child is all right again. But whether it was due to the beneficial effects of my cure or otherwise I am not sure."—*H. G. McKilligin* (Lumphinnans).

"Please will you be as kind as to give me something for the baby he is three week old on monday, and his little breasts are full with milk and they seem to be very painfull. I would have come along myself but I am afraid to venture out in the damp. The nurse squeesed them when she was attending me but I don't care about bothering her if I could get something from you to put the milk away from his little breasts remember it is for baby three week old and oblige."

Is Saccharin Harmless?

"The demand for saccharin is now very great in West Bromwich. Strangely enough, more than half of our present customers have never heard of it before, and regard it as something that some clever chemist has invented quite recently to help the sugar difficulty. Some of the queer synonyms by which it is asked for also show unfamiliarity, as shown by my note in the *C. & D.*, November 25. This is perhaps rather a good thing for the chemist, considering the tremendous difference in price between present and former supplies. Occasionally customers inquire whether it is safe to use saccharin, and I have heard some peculiar stories about it. One customer said she was told that it was comparatively harmless to adults, but poisonous to children. The Codex 1911 says it has not yet been proved whether saccharin is harmless or not. Squire 1916 has a special paragraph on page 655, which suggests that the constant or prolonged use of saccharin may give rise to cancer."—*C. W. Kemsey-Bourne* (West Bromwich). [What Squire says is: "There is now strong evidence that it is the auxetic in Tar and Pitch that gives rise to the predisposition to the epithelioma known as Pitch and Sweep's cancer." McFadden is also quoted as having shown that saccharin is "a powerful auxetic." We think Mr. Kemsey-Bourne will agree that these statements do not warrant any retail chemist telling his customers that saccharin causes cancer.—EDITOR *C. & D.*]

Dispensing Difficulties and Notes.

Readers are advised to consult "The Art of Dispensing" in regard to compounding difficulties. We welcome fresh problems and invite the co-operation and correspondence of dispensers in their elucidation.

An Oxidation Change.

L. P. S. I. (149/25) had the following prescription to dispense, and it was returned the following day, the bright-blue colour having disappeared and a black precipitate been formed:

Liq. hydrogen. perox.	℥iv.
Glycerin. acid. carbol.	℥j.
Cupri sulph.	gr. xx.
Aq. chlorof. ad	ʒij.

Ft. lotio.

[Blackening of the lotion is produced by formation of black oxide of copper, the sulphate being oxidised by the hydrogen

peroxide. Heat accelerates the reaction. The phenol and glycerin appear to be neutrals in the matter. When solution of hydrogen peroxide, chloroform-water, and cupric sulphate are heated together blackening promptly occurs; glycerin of phenol, chloroform-water, and cupric sulphate heated together show no appearance of change, but on the addition of solution of hydrogen peroxide blackening at once ensues and the precipitate begins to form. After blackening has occurred the lotion is very acid (owing to liberation of sulphuric acid), probably quite unsuitable for the purpose for which it has been prescribed. The combination is evidently undesirable, and can be remedied only by leaving out one of the offending constituents. The prescriber will no doubt be pleased to have the incompatibility indicated to him.]

Legal Queries.

A. I. M. (5/12).—The panel doctor is wrong in his idea that the insured person has the right to get return of either A or B prescription form; one of these the chemist has to send to the Pricing Bureau, and the other he retains.

Ambitious (148/17).—It is the actions of a man using the description "Medical Hall" on his shop that determine whether he is acting legally or otherwise. The words that you propose to use indicate that you are stretching your qualification to the uttermost, and we fear that a plain "Yes" or "No" might receive an unexpected interpretation from you.

R. H. R. (29/9).—No retail shopkeeper is authorised to keep his shop open after 8 P.M. unless on Saturdays (9 P.M.) except licensed premises. A chemist, like other retailers, must shut his shop at these hours, and as soon as customers in it at the closing-hour are served the shop must be again closed and the lights put out. A chemist is permitted to reopen for the sale of medicines or medical or surgical appliances to any customer, and the shop may be open and lighted until the customer is served. No one may legally keep his shop open and lighted after the closing-hour for the purpose of attracting customers.

Manchester (148/42).—As far as we are aware there is no magisterial decision as to whether or not vaseline comes within the Shops Act exemption of "medicines and medical and surgical appliances," but apart from the fact that it is the original of Paraffinum Molle introduced into the B.P. many years ago—and this is fair evidence that it is a medicine—vaseline has been treated by the Board of Customs and Excise as a medicine prepared according to letters patent; see *C. & D. Diary*, 1916, p. 353, for a statement to this effect. Upon this ground we consider that persons entitled under the Shops Act and the Medicine-stamp Acts to retail such articles, are also entitled to sell vaseline to customers after the closing-hour mentioned in the Home Office Order.

Squills (147/60).—The new Substitution Scheme under the Military Service Acts makes no change whatever as regards men lawfully and habitually engaged in dispensing medicines, although in the memorandum issued by the Man-Power Distribution Board on November 20 to local Tribunals it was stated that where any person holds a certificate, either temporary or conditional, which states that it has been granted on the ground that the holder is in a certified occupation, such certificate automatically lapses. But men who hold such certificates, and who were in the certified occupation before August 15, 1915 (the date of national registration) will be entitled to two months from the lapsing of that certificate, and within that two months they should make application to the Tribunal for a further certificate. Attested men can wait until they receive calling-up papers from the recruiting authority, and they have seven days within which to lodge an appeal to the local Tribunal for a further certificate. They should also return the calling-up papers which they receive to the recruiting authority, stating that their case is before the local Tribunal. Employers have been asked, in respect to 1917, to take such steps as are practicable to release more men of military age and fitness for the Army. It is this, probably, that your employers mean to do as regards yourself. There is nothing to prevent you giving your employers the usual month's notice, but it is you who take the risk of getting further exemption—a point upon which we cannot advise you, as you give us no particulars. You are a potential military man, but rank as a civilian until you have taken the oath and joined a unit.

Miscellaneous Inquiries.

Simplex (Barcelona) (9/9).—(1) Bleaching-soda.—The expired patent of Henkel's bleaching-soda shows this product to be a mixture of sodium silicate and sodium carbonate. Another variety contains starch and soap, in addition to sodium silicate. Attempts have been made, we believe, to combine the perborates or binoxides with a domestic washing-powder, so as to make it into a real bleaching-powder, but so far as we are aware these have not met with any success. (2) The Lightness of Precipitated Chalk is influenced by the dilution of the solutions of calcium chloride and sodium carbonate at the time of the reaction. At the same time the fineness of the powder depends upon the concentration of the solutions, so that it is usual to strike a medium dilution such as the B.P. process lays down—viz., calcium chloride 5 oz., sodium carbonate 13 oz., each dissolved in 2 pints of boiling distilled water and then mixed. (3) Sodium salicylate is employed as a preservative for glue, but may not be suitable in the case you have in view. (4) Starch-solvent.—From your description this may be diastase, or even powdered malt. There is, however, a large business done in soluble starch ("Feculose"), and it may be that you are referring to brands of this substance.

P. H. G. (135/2).—Alkalinity Indications.—The alkalimetrical degree of samples such as you send is calculated from the amount of standard acid needed to neutralise the soda, this including both the sodium carbonate and the sodium hydrate, and expressed as Na_2O. Chemically pure sodium carbonate would show 58.49 degrees. The standard acid preferred is hydrochloric acid, with methyl orange as an indicator. You can form a rough estimate of the relative alkalinity of your samples by noting the quantity of dilute hydrochloric acid needed to neutralise 60 grains, or *vice versa*.

G. A. B. (142/11).—White Patches on Scalp with grey hair on them.—From your description of this it appears to be the condition known as leucoderma or vitiligo. It is due to disappearance of pigment from the areas, and so far no treatment has been of any use.

Chemico (148/24).—The *C. & D.*, March 20, 1915, contained in its Coloured Supplement an extract from the "Trade-marks Journal," March 10, 1915, of the application for the registration of "Virophos" as a trade-mark by C. J. Hewlett & Son, Ltd., Charlotte Street, London, E.C.

C. E. (147/71).—Dental Impression-wax.—The best impressions are yielded by pure beeswax freed from grit by melting and straining through flannel. It may be tinted with alkanet. Sometimes a mixture of paraffin and Japan wax (7 : 1) is used. It is softened for use in very hot water. The following formula (quoted from "Pharmaceutical Formulas") yields a product which quickly sets very hard:

Stearin	ʒviij.
Gum dammar	ʒxij.
French chalk	ʒxxij.
Carmine	to colour

Melt the stearin and shake into it the gum dammar, previously powdered, then add the chalk tinted with the carmine and ol. geranii ʒss.

Retrospect of Fifty Years Ago.

Reprinted from "The Chemist and Druggist," Dec. 15, 1866.

The Benevolent Fund Dinner of the Pharmaceutical Society.

We beg to call attention to a dinner which has been proposed in aid of the funds of this excellent institution. It is expected to be held in London, early in February next, at, we believe, Willis's Rooms. Sometimes it is a disadvantage to have too good a theme; little can be said with much effect in praise of virtue, for which reason laudation seems thrown away in favour of so admirable a cause as this Benevolent Fund. Let want and poverty turn orators (of all the most eloquent) and plead in its behalf. It is thought that no less sum than 10,000*l.* would form a sufficient basis on which satisfactorily to conduct its operations. Spasmodic effort is a doubtful substitute for permanent and wisely directed endowment. Already a resolution has been carried, anticipating the time for granting annuities. In 1865 two were given, and in the present year two more, each of 30*l.* We would ask the readers of this journal to use their best endeavours in order to secure success.

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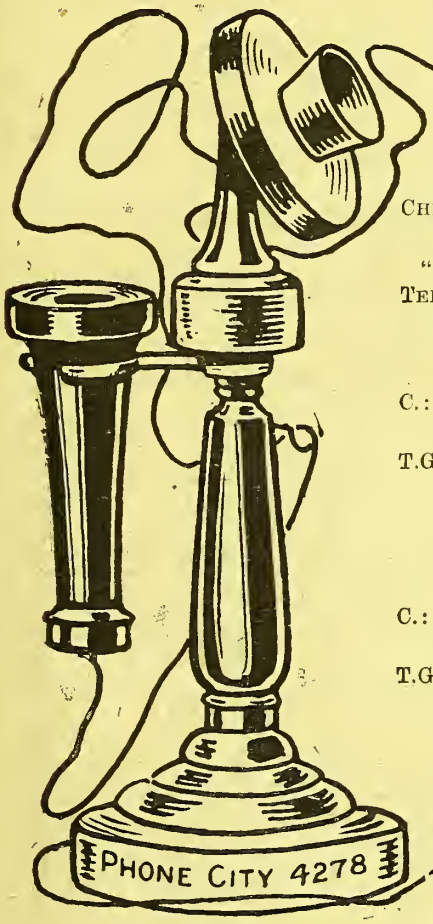

PHONO-CHAT.

(Continued.)

CHEMIST : No! Never sold so many Tooth Brushes in a single week since I started business—fact, I assure you.

"ZEPTO" TELEPHONE GIRL : Quite understand that, friend! You see what a lovely chance you have of selling not only Tooth Brushes, but Tooth Paste, Powders, Liquid Mouth Washes, &c., when the people come in for a "Zepto" pencil, and, incidentally, don't they keep the door swinging, too?

C. : Oh, yes! I am, as usual, sold out of "Zepto." Repeat the six dozen, please, per Sutton.

T.G. : Yes, certainly! Not many big advertised lines that interfere with nothing else you sell, pay you so *handsome a profit.* Let's see! You buy them (exclusive of window-show terms) at 4/6, sells at 7½d., that's 66⅔ % for "keeps." All this in addition to that heap of Tooth Brushes sold, of which you are so proud.

C. : Well! whenever there's another show like that don't ask me whether I want it, just send it along.

T.G. : I'll see to it with pleasure, but don't keep the good news all to yourself. Tell your other chemist friends.

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½ Doz. Perfume, 1 oz. ass't. ...	" " 4/-	(4.00)	16/-
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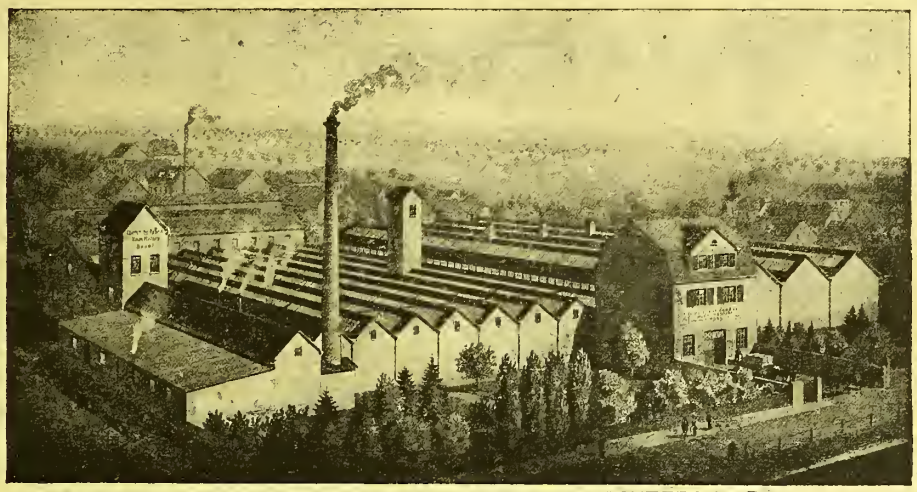

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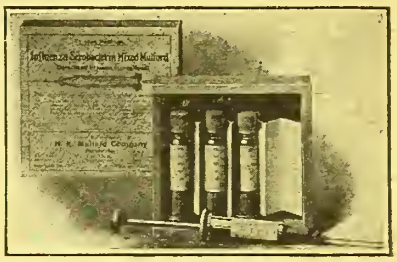

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M. catarrhalis (group)	125	250	500	1000 million
Staphylococci	250	500	1000	2000 million

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*Acid. Acet. Glacial., 99%, 6 lbs. @ 2/4 lb.
,, Acetylo-Salicyl. 1 lb. @ 26/6 lb.
,, Benz, B.P., 7 lbs. @ 27/- lb.; 1 lb. @ 28/- lb.
,, Boric Pulv., 3 cwt. @ 61/9 cwt.; 1 cwt. @ 62/9 cwt.; levigd. cwt. or lb. extra.
,, Carbol. Xtls., 39/40; 56 lb. drums @ 2/1 lb.; 12 1-lb. Bots. @ 2/4 lb.; Single Bots. @ 2/6 lb.; Detached Cryst. 1 lb. @ 2/8 lb.; Crude Black, 45 gall. casks @ 1/1 gal.; 5 gall. drums @ 1/8 gall.; 1 gall. tins @ 2/6 each.
,, Citric, cryst., B.P., '85, 7 lbs. in bags @ 2/9 lb.; powder, ½d. lb. extra.
,, Diethylbarbituric, 1 oz. @ 6/6 oz.
,, Gallic, pur., P.B., 7 lbs. @ 6/9 lb.; 1 lb. @ 7/- lb.
,, Hydrobrom., 6 lbs. @ 2/6 lb.
* ,, Hydrochlor. Coml., cases of 4 2-gal. jars, 28/6 each; 20 case lots @ 27/6 each.
* ,, Hydrocyan. P.B., 6 lbs. @ 1/7 lb.; 1 lb. @ 2/- lb.; 36 1-oz. Vials @ 7/6 doz.
,, Oxalic Cryst., 1 cwt. @ 1/10 lb.; 14 lbs. @ 2/- lb.
,, Phosph. Dil. B.P., 6 lbs. @ 5d. lb.
,, Salicyl. pulv. 1 lb. @ 8/6 lb.
,, Sulphur, Coml., cases, 4 2-gal. jars @ 36/- each; 20 cases @ 35/- each.
,, Sulph. Aromat. B.P., 5 lbs. @ 4/4 lb.
,, Tannic, B.P., 1 lb. @ 6/6 lb.
,, Tart., cryst. or pulv. B.P., 1885, 7 lbs. @ 2/9 lb.; parv. ½d. lb. extra.
Adeps Benz., B.P., 28 lbs. @ 1/1½ lb.; 7 lbs. @ 1/2½ lb.
Ærugo Æris Pulv., 14 lbs. @ 1/5 lb.
Aloes Barb., English-ground, 28 lbs. @ 120/- cwt.; 7 lbs. @ 1/3 lb.
Aloes, Socot. 7 lbs. @ 1/5 lb.; powder, 7 lbs. @ 1/6 lb.
Aloin, B.P., 1 lb. @ 5/6 lb.
Ammon. Benz., 7 lbs. @ 26/- lb.; 1 lb. @ 27/- lb.
Ammon. Brom. P.B., 7 lbs. @ 6/6 lb.
Ammon. Carb. lump, 3 cwt. @ 7½d. lb.; 28 lbs. @ 8½d. lb.; 7 lbs. @ 9d. lb.; powder, ½d. lb. extra.
Ammon. Chlor., 99% pulv., 1 cwt. @ 59/- cwt.; 7 lbs. @ 7½d. lb.; Batteries, 6/- cwt. extra.
Amyli Pulv., 10 cwt. @ 24/9 cwt.; 2½ cwt. @ 26/6 cwt.; 1 cwt. @ 28/6 cwt.
Aniseed, English ground, 1 cwt. @ 62/- cwt.; 7 lbs. @ 7½d. lb.
Antim. Nig. Pulv., 7 lbs. @ 10d. lb.
Antim. Tart. Pulv., 7 lbs. @ 3/- lb.
Apiol, 1 lb. @ 27/6 lb.
*Aqua Anethi Conc. 1–40, 1 lb. @ 3/5 lb.
* ,, Anisi Conc. 1–40, 1 lb. @ 3/5 lb.
* ,, Aurant. Conc. 1–40, 1 lb. @ 6/8 lb.
* ,, Aurant. Trip., 6 lbs. @ 8d. lb.; 53 lbs. for 23/-
* ,, Cinnam. Conc. 1–40, 1 lb. @ 3/10 lb.
* ,, Laurocerasi, 6 lbs. @ 8d. lb.
* ,, Menth. Pip. Conc., 1–40, 1 lb. @ 3/6 lb.
* ,, Rosæ Conc. 1–40, 1 lb. @ 7/6 lb.
* ,, Rosæ Trip., 53 lbs. for 25/-; 6 lbs. @ 8d. lb.
* ,, Samb. Conc., 1–40, 1 lb. @ 6/8 lb.
* ,, Samb. Trip., 6 lbs. @ 8d. lb.
Araroba, fine powder, 7 lbs. @ 8/- lb.; 1 lb. @ 8/6 lb.
Argent. Nit., 6's to oz., 25 oz. @ 2/4 oz.; 1 oz. @ 2/5 oz.
Argent. Nit., Cryst., 25 oz. @ 2/2 oz.; 8 oz. @ 2/3 oz.
Arsenic, Alb. Pulv., 2 cwt. @ 45/- cwt.; 7 lbs. @ 5½d. lb.
Atropinæ Sulph., P.B., 1 oz. @ 130/- oz.
Auri Chlor., 6 doz. 15 gr. tubes @ 22/6 doz.; 1 doz. 15 gr. tubes @ 22/9 doz.

*Bals. Copaibæ, pure, 44 lbs. @ 3/4 lb.; 9 lbs. @ 3/8 lb.; 1 lb. @ 3/11.
,, Peruv., P.B., 1 lb. @ 19/- lb.
,, Sulphur, 7 lbs. @ 1/- lb.
,, Tolut. B.P., 50 lbs. @ 1/10½ lb.; 1 lb. @ 2/4 lb.
Bismuth, P.B., Carb., 3 lbs. @ 13/6 lb.; 1 lb. @ 14/- lb.; subnit., 3 lbs. @ 12/6 lb.; 1 lb. @ 13/- lb.
,, Salicyl., 1 lb. @ 23/- lb.
Boracic Mixture, 1 cwt. @ 85/- cwt.
Borax, 1 cwt. @ 38/6; powder 1/- extra.
Butyl-Chloral Hydras., P.B., 1 lb. @ lb.

Caffeine, P.B., 1 lb. @ 40/- lb.
Caffeinæ Cit., B.P., 1 lb. @ 25/6 lb.
Calamina, powder, fine pink, 5 cwt. @ 25/- cwt.; 1 cwt. @ 28 - cwt.; 7 lbs. @ 4d. lb.
Calamine, B.P., 1885, 7 lbs. @ 1/3 lb.
Calcii Carb. Præcip., 5 cwt. @ 18/6 cwt.; 1 cwt. @ 23/- cwt.; 28 lbs. @ 27/6 cwt.
,, Hydras., P.B., 1 cwt. @ 25/- cwt.; 7 lbs. @ 5d. lb.
,, Hypophosph. Pur., P.B., 1 lb. @ 4/- lb.
,, Iodid., 1 lb. @ 21/6 lb.
Camphor, English Flowers, "not artificial," 5 lbs. @ 3/- lb.; ½ oz. or ¼ oz. 7 lbs. @ 3/3 lb.; good white, about 95% as imported, 140 lbs. @ 1/11 lb.; 28 lbs. @ 2/2 lb.
Capsicine, soluble, 1 lb. @ 9/6 lb.
Carbo Animalis or Ligni, powder or lump, 1 cwt. @ 25/- cwt.; 28 lbs. @ 3½d. lb.
Cardamoms, 28 lbs. @ 2/6 lb.; 7 lbs. @ 3/- lb.
Carmine, Finest, 1 lb. @ 35/- lb.; No. 2, 1 lb. @ lb.
Cera Alba, B.P., White Moons, 28 lbs. @ 2/2 lb.; 4 lbs. @ 2/4 lb.; Flav. 1 lb. Blocks, 28 lbs. @ 1/9½ lb.; 4 lbs. @ 1/10½ lb.; 1 oz., ½ oz. tabs., 7 lbs. @ 1/10½ lb.
Ceril Oxalas, 1 lb. @ 6/6 lb.
Cetaceum, No. 1, fine white, 64 lbs. @ 11d. lb.; 7 lbs. @ 1/2 lb.; powder, 7 lbs. @ 1/6 lb.
Chloral Hydras Cryst., B.P., 7 lbs. @ 11/9 lb.; 1 lb. @ 12/3 lb.
Chlorodyne, 5 lbs. @ 2/6 lb.
*Chloroform, pure, B.P., 12 8-lbs. @ 3/2 lb.; 8 lbs. @ 3/4 lb.; 6 1-lb. bots. @ 3/9 lb.
Cocaine Hydrochlor., 25 ozs. @ 20/-; 4 ozs. @ 21/-; 1 oz. @ 22/-.
Codeina, 1 oz. @ 23/6 oz.; Phosph., 1 oz. @ 19/6 oz.; Hydrochlor. or Sulph., 1 oz. @ 20/6 oz.
Colocynth, Apple, English ground, 1 cwt. @ 1/4 lb.; 28 lbs. @ 1/5 lb.; 7 lbs. @ 1/7 lb.
Composition Powder (Coffin's), 1 cwt. @ 62/- cwt.; 7 lbs. @ 8d. lb.
Conf. Sennæ, P.B., 14 lbs. @ 1/1 lb.; 7 lbs. @ 1/2 lb.
Cort. Aurant. Exot. Shreds, 7 lbs. @ 2/4 lb.
,, Cinchon. Rub. (Quill), 7 lbs. @ 1/7 lb.
,, Ulmi Fulvæ, Pulv., 1 cwt. @ 11d. lb.; 7 lbs. @ 1/1 lb.
Cream of Tartar, 98% powder, 1 cwt. @ 186/- cwt.; 7 lbs. @ 1/9 lb.
Creasote, Beechwood, P.B., 7 lbs. @ 12/3 lb.
Creta c. Camph., 7 lbs. @ 10d. lb.
,, Gall. Pulv., in sacks, 10 cwt. @ 9/- cwt.; 1 cwt. @ 11/- cwt.; 14 lbs. @ 1½d. lb.
,, Præparata, 7 lbs. in box @ 1/3 each.
Cubebæ, English Ground, 28 lbs. @ 2/6 lb. 7 lbs. @ 2/8 lb.

*Dec. Aloes Co. Conc. 1–2, 6 lbs. @ 2/- lb.; Sinecroco, 6 lbs. @ 1/3 lb.
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* ,, Senegæ Conc., 6 lbs. @ 2/10 lb.

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Emp. Picis, P.B., 7 lbs. @ 1/1 lb.
,, Plumbi, P.B., 7 lbs. @ 1/1 lb.
,, Resinæ, P.B., 7 lbs. @ 1/1 lb.
,, Roborans, 7 lbs. @ 1/1 lb.
Emulsio Ol. Morrhuæ, 5 lbs. @ 1/6 lb.
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Ess. Limonis (oil) original coppers, 12 lbs. @ 4/3 lb.; 6 1-lb. bots. @ 4/9 lb.; not guaranteed absolutely pure.
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*Ess. Pear (artificial), Jargonelle, 5 lbs. @ 3/9 lb.; Bergamot, 4/3 lb.
*Ess. Pineapple, 5 lbs. @ 4/- lb.
* ,, Raspberry, 5 lbs. @ 2/8 lb.; 1 lb. @ 3/- lb.
* ,, Vanilla Beans, 5 lbs. @ 4/6 lb.; 1 lb. @ 4/9 lb.
*Ext. Belladonnæ Liq., B.P., 5 lbs. @ 19/- lb.; 1 lb. @ 19/6 lb.; solid, 7 lbs. @ 11/6 lb.
Ext. Cannab. Ind., Alc., B.P., 1 lb. @ 63/- lb.
Ext. Cascara Sag. Liq., B.P., 1 cwt. @ 1/8 lb.; 10 lbs. @ 1/10½ lb.
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Ext. Gent., P.B., solid, 1 cwt. @ 2/5 lb.; 7 lbs. @ 2/8 lb.
*Ext. Glycyrrh. Liq., B.P., 6 lbs. @ 2/8 lb.
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Ext. Hyoscyam., Solid, B.P., 3 lbs. @ 12/6 lb.; 1 lb. @ 13/- lb.
*Ext. Ipecac. Liq., P.B., 5 lbs. @ 19/6 lb.; 1 lb. @ 20/- lb.
Ext. Malti c. Ol. Jecoris, 10 lbs. @ 11d. lb.
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Ext. Opii Solid, P.B., 1 lb. @ 72/- lb.
*Ext. Opii Liq., B.P., 5 lbs. @ 5/7 lb.; 1 lb. @ 6/2 lb.
Ext. Quassiæ, Solid, 7 lbs. @ 8/- lb.; 1 lb. @ 8/6 lb.
Ext. Sarsæ Co. Solid, 7 lbs. @ 6/- lb.; 1 lb. @ 6/6 lb.

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Ferri Sulph., pure cryst., 1 cwt. @ ; 7 lbs. @ 3½d. lb.
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From "The Lancet," Nov. 11, 1916.

We have carefully examined this specimen of Lanolin, and we find it ANSWERS ALL THE REQUIREMENTS OF THE BRITISH PHARMACOPŒIA. According to our examination it contained only 0.14 per cent. of moisture and 0.08 per cent. of mineral matter. These results ARE A LONG WAY BELOW THE LIMITS SET OUT IN THE OFFICIAL DEMAND. Further, we found that its acidity in terms of Oleic Acid was only 0.42 per cent., against a presumable limit of 0.7 per cent. It has been pointed out that in the test for acidity in the British Pharmacopœia it is recommended to make a solution in ether of 0.2 gramme for tritration with N/10 alkali, which would place the limit of free (oleic) acid at 7 per cent. It is an obvious slip; a solution should be made of 2 grammes, and then the limit becomes 0.7 per cent. This matter is of some importance, as any increase in the amount of free fatty acid in Lanolin is opposed to its values as a basis in many directions.

From "The Chemist and Druggist," Oct. 21, 1916.

BRITISH LANOLIN.—We have had the opportunity of examining specimens of adeps lanæ B.P. and adeps lanæ hydrosus B.P., manufactured by the London Pharmaceutical Refiners, Ltd., Martin's Yard, Endwell Road, Brockley, S.E., whose sole selling agents are the Produce Brokers Co., Ltd., 24-28 St. Mary Axe, London, E.C. The product is an interesting example of the success that follows British method and thoroughness, for the London Pharmaceutical Refiners, Ltd., have perfected their process of manufacture from British material, so that the adeps lanæ produced not only conforms with the requirements of the British Pharmacopœia, but is indistinguishable from adeps lanæ which had been imported from Germany for many years. The characteristics of the product accord with the characters and tests of the British Pharmacopœia, except that in one or two respects the L.P.R. product is superior. For instance, the amount of free acids permitted by the B.P. is almost double that contained in the L.P.R. product, and it is notable that this is quite free from objectionable woolly odour. Adeps lanæ is put up in 28 lb., 56 lb., and 1 cwt. kegs, as well as 3½ cwt. barrels. The manufacturers and agents supply it only in wholesale quantities, but the leading wholesale druggists hold stock, and can supply either the anhydrous or hydrosus form.

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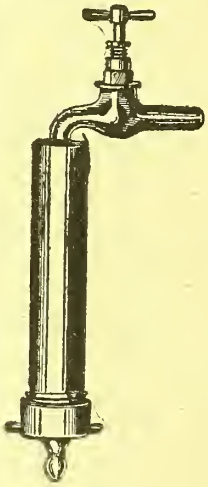

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6d. "THE FLAG," Cartoned, 3/- doz. 33/- gross.
6d. "CREAM OF ROSES," Decorated Tin in four colours, Rose design on Cream ground, 4/2 doz., 48/- gross.
1/- ALUMINIUM HOLDER, 7/6 doz. and bonus 2.
Sample of each for stamps 1/3.
C. A. STOKES & CO. Ltd., 31/35 Lower Castle Street, BRISTOL.

JOHN E. RAWORTH
CHARTERED PATENT AGENT,
PATENTS, TRADE MARKS AND DESIGNS.
THE OLD MANSION HOUSE, 73 Cheapside, E.C. and QUEEN ANNE'S CHAMBERS, WESTMINSTER, S.W.

SHADEINE

FOR COLOURING GREY HAIR

This popular article is largely advertised and stocked by all Wholesale Houses!

TRIAL BOTTLES 6d. siz , supplied on pretty showcards.

4/6 doz. ; 1/- size, 10/- doz. ; 3/6 size 30/- doz.

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EBOR PARCEL SEALS WRITE FOR CATALOGUE

FOR MANUFACTURING CHEMISTS.

EBOR PARCEL SEALS are the quickest and strongest stickers on the market—labour-saving, cheap, smart and good advertisement. A strong statement, but write for samples and prove its accuracy.

W. SESSIONS, Printer, York.

OPEN WOVE BANDAGES.

WHITE and GREY.

Special offers at very low prices for quick clearance.

SAMPLES AND PARTICULARS ON APPLICATION.

HOSPITALS & GENERAL CONTRACTS CO., LTD.
19, 21, 25 to 35 MORTIMER STREET, W.

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CHEMISTS' STAMPS, SEALS AND STENCILS A SPECIALITY.

S. D. RICHFORD,
8 & 9 Snow Hill,
LONDON, E.C.

Full Illustrated Lists Free. Special Terms to Chemists.

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—LONDON AND NEW YORK— MAKERS OF

"K-Y" LUBRICATING JELLY

IN COLLAPSIBLE TUBES AND OF

"Van Horn" Sterile Sutures and Ligatures

IN GLASS TUBES — PRICES ON APPLICATION

Up-to-date Chemists

Should see that their names are on the monthly mailing list for Christy's Monthly. In this leaflet many valuable suggestions together with intimation of new lines will be found. Let us send you this month's issue, post free.

CHRISTYS, OLD SWAN LANE, E.C.

ASTELL J. WILLSON, 25 Monument Street, London, E.C.

Cable Address: "Acriton London." Telephone: 5683 Avenue. P.O. Box 1155, Capetown.

Chemists' Buying Agent and General Export Merchant.

All Indents sent to me will receive my personal and prompt attention.

Sole South African Agent for—John Gosnell & Co., Ltd., London. The Standard Tablet and Pill Co., Ltd., Hove. The "Do-Well" Feeder, Valves and Teats.

Proprietor of "ESTELLE" (*Reg.*) Brand of Toilet Articles and Feeding Bottles.

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SOLUBLE QUININE PESSARIES.

THE WORLD-WIDE REPUTATION that these Pessaries have obtained since their invention by W. J. Rendell in 1885 has induced unscrupulous persons to place upon the market worthless and injurious compounds, with colourable imitations of W. J. Rendell's labels. To distinguish the genuine Pessaries from these fraudulent concoctions, see that the Registered Trade Mark and Number, in ***RED INK,*** are upon each box thus:

Registered Trade Mark, without which none are genuine. No. 182,688.

W. J. Rendell

No. 182,688

Registered also in Australia, India, The Cape, The Argentine, Germany, &c.

IMPORTANT NOTICE AND CAUTION.

Several injunctions in the High Court of Justice having already been obtained (reports of which have appeared in "THE CHEMIST AND DRUGGIST"), W. J. RENDELL'S SOLICITORS are instructed to take proceedings against all persons (Makers or Vendors) fraudulently using the name of W. J. RENDELL," "RENDELL," or any colourable imitation thereof in connection with Pessaries NOT manufactured by

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GLASS BOTTLES

(Manufacturers)

BLUE POISONS, AND

ALL BLUE GOODS A SPECIALITY

TABLETS
PANELS
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ESTABLISHED 1868

WHOLESALE and EXPORT.

BLUE
AMBER
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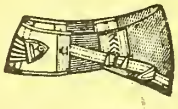
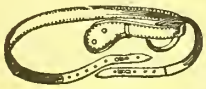
WHITE FLINT

Works & Offices:
The Oval, Cambridge Heath, London, N.E.

J. H. HAYWOOD, Ltd.

Surgical and Athletic Appliance Manufacturers, Castle Gate, NOTTINGHAM.





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SURGICAL ELASTIC HOSIERY, TRUSSES, SUSPENDERS, BRACES.
LADIES' & GENTLEMEN'S BELTS for SUPPORT and WARMTH made in Fleecy, Felt, and Chamois, etc.
CHEST PROTECTORS and SLEEPING SOCKS, ELASTIC and LEATHER WRISTLETS, ARM PIECES, ELBOW PIECES and KNEE CAPS for Football, Golf and Hockey.
DRUGGISTS' SUNDRIES, INDIA RUBBER HOT WATER BOTTLES and COVERS, ELASTIC WEB BANDAGES, all lengths, widths and qualities.

LOWEST QUOTATIONS AND SAMPLES ON REQUEST.

MEDICAL DISPENSING BOTTLES.

T. FERRY & SON, Ltd.
PARK LANE GLASS WORKS,
GATESHEAD-ON-TYNE.

Telegrams: "BOTTLES GATESHEAD." Telephone: 70 GATESHEAD.

GODFREY'S
CHLORIDE OF AMMONIUM INHALER.

Loss of Voice,
Throat Affections,
Hay Asthma.

RETAIL PRICE 7/6.

Sole Maker and Original Inventor and Patentee:—
F. H. GLEW, Chemist, 156 Clapham Rd., London, S.W.

"SANOID" BORACIC SOCKS.

MANY Chemists have enjoyed the ready sale of Boracic Socks, which literally

SELL THEMSELVES

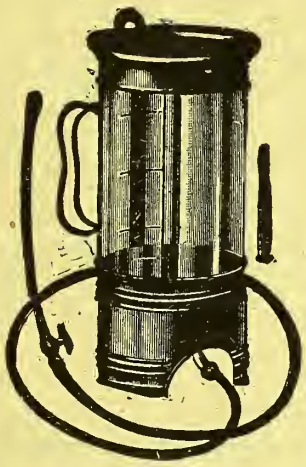
NOW is the time to order, so as to enjoy a share of these

READY SALES

3/6 per dozen pairs.
SAMPLE ON APPLICATION.

CUXSON, GERRARD & CO., Ltd., OLDBURY.

SPECIAL DOUCHE OFFER.



DELIVERY FROM STOCK.

Superior finished white enamelled frame, clearly graduated, with glass container, fitted complete with 6 feet best quality Red or Black tubing, ribbed and with rolled ends, and set of vulcanite fittings, each in strong leather-board box.

Prices per doz.	2-pint.	3-pint.	4-pint.
	54/-	60/-	66/-

Special quotations for Quantities on application.

JAMES L. HATRICK & CO., Ltd.
(Proprietors of EVANS & WORMULL, late of Stamford St., S.E.)
70—72 ST. JOHN STREET, CLERKENWELL ROAD, E.C.

Telephone: City 9616 (2 lines).
Cable and Telegraphic Address: "FORTALICE LONDON."
A B C Code, 4th and 5th Editions, used.

ESTABLISHED 1670.

Mail Order Business

INTERESTED?

MANY Clients make good incomes this way.
SOME make fortunes.
YOU can make the former—perhaps the latter.

INVESTIGATE!

May I help you?
I am a Fellow of Inc. Soc. Advt. Consultants
Enough said!

WRITE TO-DAY FOR MY FREE BOOKLET "BUSINESS BY POST"

F. A. Degen, F.I.S.A.C.
Mail Order Specialist for Chemists & Druggists,
C/O THE C. & D. 42, CANNON ST., LONDON, E.C.

Near the British Museum.
KINGSLEY HOTEL
HART STREET, BLOOMSBURY SQUARE, LONDON.
Opposite the British Museum.
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GREAT RUSSELL STREET, LONDON.

These well-appointed and commodious TEMPERANCE HOTELS have Passenger Lifts, Bath Rooms on every floor, Lounges and spacious Dining, Drawing, Writing, Reading Billiard and Smoking Rooms.

Perfect Sanitation. Fireproof Floors. Telephones. Night Porters.

BEDROOM, BREAKFAST, ATTENDANCE AND BATH, PER NIGHT PER PERSON - - 6/6

Full Tariff and Testimonials on application.

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Telephones: Museum 1232, Museum 1230.

METHYLATED SPIRIT
OILS AND CHEMICALS.
Buy from one of the Oldest Houses in the Trade.
Write for Prices. ESTABLISHED 1794.
SAMUEL THORNLEY, LTD., BIRMINGHAM

TO USERS and DEALERS in METH. SPIRIT and SPIRIT OF WINE.
FOR QUOTATIONS apply to—
PRESTON'S LIVERPOOL DISTILLERY Co., Ld.
The Largest Makers in the Kingdom.
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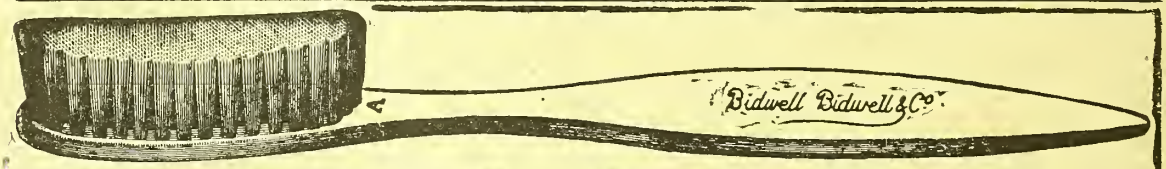
BOXES For the Chemist . . . . For the Druggist and Sundriesman BOXES
Any Size; any Quantity. One Quality only—THE BEST.
Send us your Samples or Sizes and we will quote you by return.
J. DAVIDSON & CO., 98 SHEPHERDESS WALK, CITY ROAD, LONDON, N.



BIDWELLS' TOOTH BRUSHES.
NO LOOSE HAIRS.
Please send for Catalogue—
BIDWELL, BIDWELL & CO., Ltd., AXMINSTER, DEVON.
LONDON OFFICE: BUSH LANE HOUSE, CANNON STREET, E.C.

It's British

An Alkaline Tonic Aperient Water
PLEASANT IN TASTE
PAINLESS IN ACTION
TONALKA
SOLE PROPRIETORS
IDRIS & CO. LIMITED
LONDON LIVERPOOL & SOUTHAMPTON

Take a Note of the Name

Tonalka

THE BRITISH APERIENT WATER

A Profitable Line for Chemists.

IDRIS & CO., LTD.

Pratt Street,
Camden Town,
N.W.

DR. J. COLLIS BROWNE'S CHLORODYNE

Revised Prices and Terms:

OCTOBER 1915.

Size	1/3	3/-	5/-	12/-
Minimum Retail Price	1/2	2/10	4/9	11/6
PRICE TO TRADE (Per Dozen)	**11/9**	**29/6**	**48/9**	**117/6**

Discount: 5 per cent. on £1 worth, 7½ per cent. on £5 worth and upwards.

Packages charged 3d. on £2 parcels or under, and 1d. for each extra £1 worth, and are not returnable. Carriage forward.

Terms: Cash with order. Most Wholesale Houses supply on equal terms.

Dr. J. Collis Browne's Chlorodyne

is on P.A.T.A. Protected List, & must not be sold below the prices named above.

J. T. DAVENPORT, Ltd., Proprietors,
117 Union Street, S.E.

THE CHEMIST & DRUGGIST SUPPLEMENT.

OFFICE: 42 CANNON STREET, E.C. SATURDAY, DECEMBER 9, 1916

TO ADVERTISERS IN THIS SUPPLEMENT.

The Publisher desires to make it clear that advertisements of Businesses for Disposal and Wanted, Situations Open and Wanted, Exchange Column, &c., MUST BE PREPAID (except in the case of serial advertisers), and to ensure prompt insertion

REMITTANCES MUST ACCOMPANY INSTRUCTIONS.

Advertisements for the current issue cannot be received after 4 p.m. on Thursday in each week. If it is necessary to telephone or telegraph an urgent announcement this may be done

PROVIDED the MONEY is TELEGRAPHED

at the same time and the fact made clear that the money order is to be delivered at 42 CANNON STREET, LONDON, E.C. Advertisers will assist greatly in the preparation and quick despatch of the Supplement by making careful note of these rules. Telephone: No. 2617 Central (3 lines). Telegraphic Address: "Chemicus Cannon London." (Three words counted as two.)

BEST RESULTS EVERY WEEK!

There is no need to guarantee the genuineness of the advertisements in 'The Chemist & Druggist Supplement.' Everybody in the drug-trade knows that only *bona-fide* paid-for advertisements are inserted. The 'Chemist & Druggist Supplement' knows no dead-heads, for it gives

THE PUBLICITY IT PAYS TO PAY FOR.

CHEMISTS' TRANSFERS.

Messrs. ORRIDGE & CO., 56 Ludgate Hill, E.C.

Telephone Number: City 2283.

May be consulted at their Offices on matters of SALE, PURCHASE, and VALUATION.

1. WEST MIDDLESEX.—Retail and Dispensing; very profitable middle-class Business; returns £1,500; will bear the fullest investigation; modern-fitted shop, with residence; terms, valuation and small premium for lease and goodwill.

2.—LONDON, W.—Good-class Business, situate in fashionable locality; returns £600, present rate; *profits above the average*; lock-up Pharmacy; about the valuation of stock and fixtures required, estimated at £500.

3.—CITY (10 Minutes from).—Ready-money Business; capable of extension; returns between £900 and £1,000; *good profits, above the average*; very moderate price will be accepted, say about £325.

4.—WALTHAM CROSS (Within Easy Distance of).—Ready-money Retail; returns, present rate, £1,650 (proof given); *net profit* £452; comfortable residence; rent £50; price £500, for which full value is offered.

5.—LONDON, N.W. (Situate in Good Business Thoroughfare).—Retail and Dispensing, chiefly ready money; returns £1,000; *profits* £300 *yearly* (*net*); attractive, well-fitted shop and good stock; price to be arranged; equitable terms only required.

6.—MANUFACTURING TOWN (North of England).—Ready-money Retail, with excellent Optical connection; returns about £1,400; *net profit about* £600; valuation terms entertained.

7.—LAKE DISTRICT.—Mixed Business, with excellent sale for own Proprietaries; returns about £3,000; terms, stock and fixtures at valuation and sum for goodwill to be arranged equitably.

8.—SUSSEX.—Retail and Dispensing Business, of good class; village in midst of glorious country; returns about £850, at good prices, and increasing steadily; comfortable residence, with private entrance; nicely fitted and well stocked; further details on application.

9.—BIRMINGHAM.—Establishd Business, Retail and Dispensing; returns under management about £600; formerly £1,000; there is also an appointment giving an income of about £80 yearly; satisfactory reason for disposal; offer wanted.

10.—PICCADILLY (Near).—Essentially Dispensing and good-class Retail Business; returns between £1,100 and £1,200 yearly; *gross profit exceeds* £650; for a quick transfer vendor is willing to make some sacrifice.

11.—BOURNEMOUTH.—Old-established Business, essentially Dispensing and Family Retail; position unique; returns £2,500; under modern management an opening presents to considerably augment the turnover; terms, valuation of stock and fixtures, less a substantial rebate; vendor retiring.

12.—CARDIFF.—Thoroughly sound Retail and Dispensing Business in busy main thoroughfare; returns £1,500; excellent premises; vendor is desirous of taking up an appointment, and for a quick sale will accept the value of stock and fixtures.

13.—WEST END.—Essentially Dispensing and good-class Retail Business; price about £1,000, or Partnership would be considered; returns £2,000; roomy premises, comprising shop and 11-roomed house; *gross profit* 50 *per cent.*; if preferred vendor will accept £250 and valuation of stock and fixtures.

14.—KENT (Few Miles Out).—Good-class Business, Retail and Dispensing; returns £700; *net profit about one-third*; roomy house, with garden and side entrance; price £450.

VALUATIONS FOR STOCKTAKING.

Messrs. O. & Co. desire to emphasize the necessity of a Periodical Statement of Account, by which means alone **Profit, the value of Business, &c.**, can be determined. Involving as this does the labour of Stocktaking and Valuation, it is often omitted, and eventually becomes the cause of **confusion and loss.**

Messrs. O. & Co. are prepared to undertake these essential duties, and will make **Special Terms** for such services.

ORRIDGE & CO., 56 LUDGATE HILL, LONDON, E.C.

PARSON C. BAKER

Pharmaceutical Chemist,

TRADE VALUER AND TRANSFER AGENT.

Recommended by British Drug Houses, Ltd.: Meggeson & Co.: Barclay & Son.
Tel. No.: FINCHLEY 812

Valuer to the Association of Manufacturing Chemists, Ltd.

VALUATIONS, ESTIMATIONS, EXAMINATIONS, AND FULL REPORTS, Town or Country, on moderate terms.

No charge whatever to vendors or purchasers except by agreement.
Personal Attention. 40 years' Valuation Experience.

Forced Sale.—Joining up. Central position, popular suburb. Returns £1,300, good class. Large house, can let off. Suit limited company.

CORRESPONDENCE INVITED.

1 MOUNTFIELD RD., CHURCH END, FINCHLEY, N.

THOS. TOMLINSON & SON

CHEMISTS' VALUERS, TRANSFER AGENTS, AND EXPERT STOCKTAKERS,
45a MARKET STREET, MANCHESTER.
ESTABLISHED OVER HALF A CENTURY.
Telegraphic Address: "Tomtom."

BATTAM & HEYWOOD

(ESTD. 1837.)

CHEMISTS' VALUERS, TRANSFER AGENTS, AND EXPERT STOCKTAKERS.
Balance Sheets Prepared. Books Audited.
3 DAVIES STREET, BERKELEY SQUARE, W.
Telephone: GERRARD 2169.

BERDOE & FISH

VALUERS & TRANSFER AGENTS,

35 Jewry Street, Fenchurch Street, City.

Telephone: 1809 CENTRAL.

NO CHARGE TO PURCHASERS.

1.—SOUTH COAST (Fashionable Resort).—Good-class Dispensing and Retail Business, with Photographic, in principal main thoroughfare; turnover nearly £2,000; profits about a third; commanding corner Pharmacy, well fitted and stocked; good house attached; price, simply valuation of stock and fixtures, plus £100 goodwill, in all about £1,000.

2.—SOUTHERN COUNTY.—First-class Dispensing and Retail Business in most desirable town; returns about £1,200; gross profits half; scope for considerable increase in right hands; good position, main road; price £700, or £100 and valuation of stock and fixtures; personally inspected and recommended.

3.—LONDON (West End).—Exceptional offer; high-class Dispensing and Retail Business for Disposal; 9,000 scrips yearly; returns exceed £2,400, producing a net income of £800; excellent position; very valuable lease; handsome Pharmacy, well stocked; price £1,100 cash; quick sale desired; will bear strictest investigation.

4.—CLAPTON, N.—Good-class Light Suburban Retail Business; in same hands 16 years; returns £850; good profits; attractive Pharmacy and convenient house; stock and fixtures recently valued at over £300; will accept about £150 for quick sale; only requires seeing; personally recommended.

STOCKTAKINGS.

Appointments for stocktakings and valuations should be made early. Full particulars and terms sent on application.

Why you should have stock taken is very clearly defined on page 135 of the *C. & D. Diary* for this year. Have you read it?

BUSINESSES FOR DISPOSAL.

3s. 6d. for 50 words or less; 6d. for every 10 words or less beyond, prepaid.

The **Advertiser** may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of **6d.**

Price-lists, trade circulars, samples, and printed matter can in no case be forwarded, the Box numbers being intended exclusively for specific answers to particular advertisements. The Publisher reserves the right to open and refuse to forward any communications received which he may consider contrary to this rule.

CORNISH RIVIERA.—Old-established Retail and Dispensing Business; returns £1,500-£1,600; exceptional low rent; good Optical connection; satisfactory reasons for selling; plenty of scope for increase; beautiful locality; valuation terms only wanted; Manager with view to purchase entertained. Apply, 36/21, Office of this Paper.

SOUTH WALES.—For Disposal, genuine Cash Business in progressive Colliery district; returns about £1,000; good net profits; every investigation offered to bona-fide inquiries; exemption military service has been granted to present owner and could be transferred to purchaser; stock could be reduced to suit purchaser's finances. 39/18, Office of this Paper.

WEST END.—For immediate Disposal, under exceptional circumstances, a first-class Family Retail and Dispensing Business; returns about £2,500; net profit £800 clear; splendid position; fully stocked; will accept £1,100 cash for prompt sale; only bona-fide cash buyers entertained. Address, "Radium" (40/3), Office of this Paper.

A BUSINESS situated in a good-class residential district in N.W. London is offered for immediate Disposal owing to proprietor joining the Colours; takings average £11-£12 weekly; mostly Prescribing and many well-known Proprietaries; no N.H.I.; scope for great development; low rental; stock and fixtures at valuation; every investigation, and trial allowed if desired. 31/200, Office of this Paper.

COMFORTABLE little Business, situated in N.W. London in thickly populated district; splendid house accommodation; takings average £10-£12 weekly; mostly Prescribing; well stocked; every convenience; accept £150 cash for quick sale; good reasons for selling; every investigation allowed and 14 days' trial given to a bona-fide applicant. 31/20, Office of this Paper.

WAR.—A genuine London Business. I will probably be called to the Colours early in New Year, so reluctantly am compelled to sacrifice my business, which has been established 8 years; a man with undeniable credentials can have my business at a low figure; unqualified, I saved over £2 per week after living when I was single, inclusive; stamped envelope for particulars. Apply, 40/25, Office of this Paper.

£120 for Country Business; no opposition; turnover about £500; can easily be doubled; owner joined the Army. Maut & Staffurth, Solicitors, Petworth, Sussex.

AGENCIES.

Price-lists, trade circulars, samples, and printed matter can in no case be forwarded, the Box numbers being intended exclusively for specific answers to particular advertisements. The Publisher reserves the right to open and refuse to forward any communications received which he may consider contrary to this rule.

FRENCH and English Chemists, doing a good Wholesale and Retail business in Chile, S.A., are open to take up exclusive Agencies; keep your trade out of German hands; references, Evans Sons Lescher & Webb, Ltd. Address, Mahuzier Succesores, P.O. Box 265, Concepcion, Chile, S.A.

ANNEXATION.—Agents wanted to sell British Lysol and non-flammable dry cleaning Benzine substitute, etc.; good connection essential. U.K. Chemical Co., Ltd., Harvey Street, Yoker, Glasgow.

PROFITABLE Side-line offered smart traveller, 20 per cent. basis; 3*d.* and 6*d.* Suède and Felt Cleaner, dry process; light, smart samples; few territories now open; only pushing men with good connection considered. E. Curtis & Co., Filton, Bristol.

LEGAL.

FINAL NOTICE.
IN THE MATTER OF THE TRADING WITH THE ENEMY (AMENDMENT) ACT, 1916,
AND
IN THE MATTER OF THE ROBORAT COMPANY, 6 & 7 KINGHORN STREET, E.C.

WHEREAS by an Order of the Board of Trade dated the 17th April, 1916, under Section 1, Sub-section 1, of the above-mentioned Act, requiring the business of the above-named Company to be wound uf, I, the undersigned Charles Nicholas Moysey Stuart, of 31 Lombard Street, E.C., Chartered Accountant, was appointed Controller of the Company, to control and supervise the carrying out of the said Order and to conduct the winding-up of the business; and whereas in pursuance of such Order the Company's business has now been finally discontinued, and all the stock-in-trade, etc., has been disposed of, NOTICE is now hereby given that any creditors of the above-named Company who have not already furnished particulars of their claim are required, on or before the 21st day of December, 1916, to send their names and addresses and particulars of their debts or claims, to me the undersigned Charles Nicholas Moysey Stuart, of 31 Lombard Street, E.C., the Controller of the said Company; and if so required, by notice in writing from me, are by their Solicitors or personally to come in and prove their said debts or claims at such time and place as shall be specified in such Notice, or in default thereof they will be excluded from the benefit of the said Order.

AND NOTICE IS HEREBY FURTHER GIVEN, that all persons having in their possession any property or effects belonging to the said Company must forthwith deliver them up to me, and all debts due to the said Company must be paid forthwith to me at my address aforesaid.

Dated this 1st day of December, 1916.

CHARLES NICHOLAS MOYSEY STUART,
CONTROLLER.

FOR SALE.

SELF-ADDING National Cash Registers for Sale; suit any business; good condition; cheap. Write F. Fishwick, 137 Jamaica Road, Bermondsey, S.E.

WHAT Offers?—1 lb. Phenazone; 3,000 Aspirin Tabs., gr. 5; 2 lb. Bism. Carb.; 1 lb. Acetyl Salicylic Acid; 1 lb. Quin. Sulph.; 2 oz. Morph. Hcl.; 7 lb. K. Br.; 4 lb. Na Br.; 4 oz. Resorcin; 3 lb. Sod. Salicyl. Apply, 37/38, Office of this Paper.

COMPLETE Fittings of Chemist's shop, until recently carried on by Mr. J. Wright, Mill Street, Macclesfield; Shop Rounds, Mahogany Cases, Drawers, Counters, and a quantity of Sundry Stock. Can be seen by applying to J. Hodkinson, 101 Mill Street, Macclesfield.

WANTED.

WANTED,
to purchase for cash, large or small quantities of the following:—

Piperazine Dimethyltartrate (Lycetol)	Benzonaphthol
Acetamidosalol (Salophen)	Resorcin
Naphthol Salicylate (Betol)	Orexin Tannate
Albumin Ichthosulphonas (Ichthalbin)	Rubidii Iodid.
Acetol Salicylate (Salacetol)	Iodopyrrol (Iodol)
Phenitidin Citrate (Citrophen)	Menthol Valerian (Validol)
Methoxymethyl Salicylate (Mesotan)	Thymol Bi-Iodide (Aristol)

Methylacetanilid (Exalgin)

Please state quantities offered, and prices, to "X.Y.Z.," 150/64, Office of this Paper.

TO LET.

CORNER Shop; suitable Chemist, needed in district; good house attached, garden; rent £30 inclusive. 37/2, Office of this Paper.

PARTNERSHIPS.

£500.—Pharmacist wanted as Partner (or Limited Company) for small Manufacturing concern; exceptional opportunity of building up a large and profitable business. Write, 40/16, Office of this Paper.

SALES BY AUCTION.

TRADING WITH THE ENEMY AMENDMENT ACT, 1916.

RE ODOL CHEMICAL WORKS.

("ODOL," "IREX," "FORMAWN," "PIXOAP," etc.)
To be Sold
By Order of the Controller appointed by the Board of Trade,
Claude C. Campling, Esq.,
Chartered Accountant.

MESSRS. DANIEL WATNEY & SONS are instructed to offer by PUBLIC AUCTION on the premises,
Nos. 6 & 8 Marshalsea Road, Southwark, S.E.,
ON TUESDAY, THE 12th DECEMBER, 1916, at 12 O'CLOCK PRECISELY,
the Plant and Machinery, Oils, Essences, Bottles, Trade Sundries, Office Furniture, Safe, Trade Carts, Harness, and other miscellanea, comprising the entire Stock-in-trade in this country of
THE ODOL CHEMICAL WORKS.

The entire Stock as per detailed Catalogue will be first offered IN ONE LOT as it stands, and if not disposed of as a whole, it will be sold in separate Lots without reserve as per catalogue.

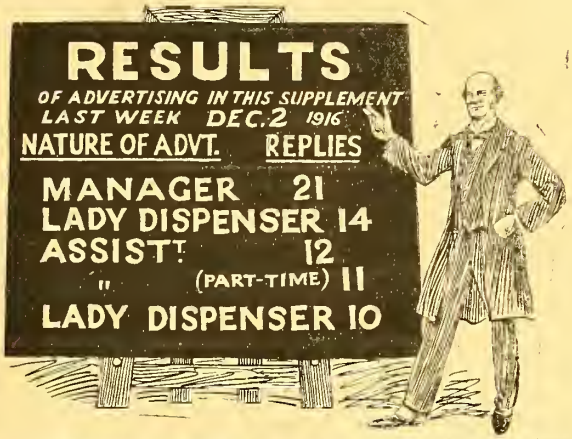
On view day prior and morning of Sale.

Catalogues of:—
THE CONTROLLER, CLAUDE C. CAMPLING, ESQ. (MESSRS. WHINNEY SMITH & WHINNEY), CHARTERED ACCOUNTANTS,
4b FREDERICK'S PLACE, OLD JEWRY, E.C.; or
THE SOLICITORS,
MESSRS. FOSS, BILBROUGH, PLASKITT & CO.,
5 FENCHURCH STREET, E.C.; or of
The Auctioneers,
Messrs. Daniel Watney & Sons,
4a Frederick's Place, Old Jewry, E.C.

SITUATIONS OPEN.

3s. 6d. for 50 words or less; 6d. for every 10 words or less beyond, prepaid.

The **Advertiser** may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of **6d.**



This Blackboard demonstrates that Advertisers using these columns get a ready response to their announcements. The figures only refer to some of the letters RECEIVED AT OUR OFFICE on behalf of Advertisers who use a number or nom de plume.

RETAIL.

BIRMINGHAM.—Manager, qualified, for busy Retail; must be good Salesman, capable Manager, and have undeniable references; apply, with full particulars of salary required, age, and experience. Junior for Branch also required. A. S. Price & Co., Ltd., Blackheath, Birmingham.

BRIGHTON.—At once, reliable and competent Assistant for five hours daily; suit active, elderly man; comfortable and permanent position; Light Retail; practically no Dispensing; salary about 25s. weekly. Stead, 23 Duke Street, Brighton.

THE ONLY WAY

to create a business is by giving honest value. We have good goods to sell. You send, now, six penny stamps to cover postage, we will send you the samples on free. Wholesale buyers only. Cash with order terms. You will purchase the goods when you see them. 100% Bonus given with opening orders

NI-VERRE CHEMICAL COMPANY,
Pharmaceutical and Toilet Preparations,
5 to 7 Ormeau Avenue BELFAST (Ireland).

DISPENSING BOTTLES & PHIALS.

CLEAR BLUE TINTED.—3 and 4 oz., 6 and 8 oz., 12 oz., 16 oz. Plain or graduated.
BEST QUININE TINTED.—3 and 4 oz., 6 and 8 oz., 12 oz., 16 oz. Plain or graduated.
WHITE PHIALS.—½ oz., 1 oz., 1½ oz., 2 oz. Plain or teaspoons.
BLUE LOTION BOTTLES.—½ oz., 1 oz., 1½ oz., 2 oz., 3 oz., 4 oz., 6 oz., 8 oz., 12 oz.
PANEL BOTTLES.
We send six gross assorted or otherwise, carriage paid within seven miles, and to certain stations. Particulars on application.
CORKS.
Good Quality. For 6 and 8 oz. bottles, 1/6 per gross in 6 gross bags. For phials 1/- per gross in 3 gross bags.

I. ISAACS & CO.,
106 MIDLAND ROAD, ST. PANCRAS, LONDON, N.W.
Or ISLINGTON BOTTLE COMPANY, 7 New Inn Yard, Tottenham Court Road, London, W.
Orders sent to either establishment have attention.
Established 100 Years.

EXCHANGE COLUMN

One halfpenny per word with name and address. One penny per word if we register the address and attach a number.
No advertisement inserted for less than 6d.

FOR DISPOSAL.

DENTAL.

F[illegible] sale, 12 dental showpieces, celluloid and vulcanite, from 3s. 6d. R. Lamb, 123 West End Lane, London.

DRUGS AND CHEMICALS

1 cwt. liquorice-juice in 10-lb. blocks, small stock, for sale. Offers to "Minim" (152/12), Office of this Paper.

MISCELLANEOUS.

PILL MACHINE, 4 gr.; good B.P., 1885. Offers, "Drugs," 139 Linthorpe Road, Middlesbrough.

WATER or air bed, bolster, and pillow-cases, perfectly clean, 30s. Vaughan, 12 Leeds Bridge, Leeds.

WANTED.

SOCIETY OF CHEMICAL INDUSTRY,
BROADWAY CHAMBERS, WESTMINSTER, S.W.

The Society's stock of Journals for March 15, March 31, and July 31, 1916, having become depleted, the Secretary will be glad to hear from anyone having these numbers who is willing to dispose of them.

SQUIRE'S "Companion," 19th edition. Lowest price to Orange, Chemist, Aldershot.

SACCHARINE, powder or tablets; job lots wanted for cash. Walton, Batley Carr.

WANTED, in good condition, Veedee Vibrator; cheap, cash. Morris, Creake House, Abingdon.

WANTED, 6 oz. "Medinol." Advise price to Drennan & Cooper, Gaythorn Mill, Albion Street, Manchester.

WANTED, salicin in quantity; spot or forward delivery; lowest cash terms. Address, 150/36, Office of this Paper.

WANTED at once, malt-glidine, any quantity, trional and phenacetin. McEwen, 17 Craven Road, Paddington, W.

WANTED, National cash registers, keys to £2, ticket printers and total adder. Write, giving full particulars, to F. Smith, 50 Midhope Buildings, King's Cross, W.C.

OPTICAL books, Minor, Major, Chemists' books; send prepaid for valuation; cash offers per return. Gower, Bookseller, 41 Voltaire Road, Clapham, S.W.

Practical Notes and Formulas.

Quick-drying Ink.

A French Chemist states that all the inconveniences of using inks which dry slowly may be done away with, and the use of blotting-paper be made unnecessary, by adding 2 per cent. of alcohol to ordinary ink. Such ink dries immediately after writing with it.

Silver Stains.

Stains on linen of organic silver compounds can be removed by immersing them for five minutes in 1-per-cent. bromine-water, washing with water, and then placing the linen in a 5-per-cent. solution of sodium hyposulphite, which dissolves the silver bromide. Finally wash with water.

Stearin in Beeswax.

To detect the presence of stearin or stearic acid in beeswax warm the wax with a solution of a copper salt or with cupro-potassium solution. If stearin is present a pronounced green colour is produced, while pure wax preserves its yellow colour, or else a very faint green is shown, due to the presence of higher fatty acids, such as cerotinic and melissic acids.

Duret's Solution.

This is a hypochlorite solution, resembling Dakin's solution and eusol, used for dressing wounds. It is made by rubbing together in a mortar 28 grams of chlorinated lime and 18.2 grams of magnesium sulphate, and adding the powder, a little at a time, to a litre of ordinary water. Filter through cotton-wool. The liquor is isotonic, slightly alkaline, and keeps well. Other investigators have employed different magnesium salts in similar wound-dressing solutions.

Cleaning Sponges.

M. Reeb, in "L'Union Pharmaceutique," recommends the following method of cleaning sponges which have become "greasy" after using with soap: First well soak the sponge in a 5-per-cent. solution of ammonia, then rinse with water and place in a 4-per-cent. solution for several hours. Squeeze out the ammonia solution, rinse, and place in a further quantity of the solution for several hours. Then after rinsing immerse in a solution of 10 gr. of potassium permanganate in a pint of warm water. Rinse with water and place in a 2-per-cent. solution of bisulphite of soda to which a few drops of sulphuric acid have been added. A final rinsing is required, and a sponge "equal to new" results.

Mineral Confection.

For supplying to the body lost mineral salts and re-establishing the equilibrium of the blood-plasma Dr. H. Gilet has devised the following "theriaque minerale":

Sodium chloride ...	15 grams	Iron carbonate ...	0.5 gram
Potassium chloride	10 grams	Hæmoglobin ...	2.5 grams
Sodium phosphate	13 grams	Iron glycerophosphate	15 grams
Potassium phosphate	6 grams	Yolk of egg ...	15 grams
Calcium glycerophosphate ...	1 gram	Lactose	10 grams
Magnesium glycerophosphate ...	1 gram	Caseine	5 grams
Potassium sulphate	1.50 gram	Powdered St. Ignatius' bean ...	1 gram
		Powdered rhubarb	4 grams

Mix very carefully and divide into 100 powders. A powder is to be taken before breakfast and before dinner, the number being increased gradually until six powders daily are taken. The saline ingredients are adjusted according to the proportion in which they exist in the blood.

Wootton's "Chronicles of Pharmacy."

By arrangement with Messrs. Macmillan & Co., Ltd., we are able to offer this work (published by them at a guinea net) to "C. & D." Subscribers at 7s. 6d. carriage paid in the United Kingdom, and 8s. 6d. Abroad. The work is by the late A. C. Wootton (for many years Editor of "The Chemist & Druggist"), and is in two volumes, bound in maroon cloth. The twenty-four chapters deal with every phase of the history of chemical and galenical pharmacy from the earliest times, and include biographies and portraits of many noted men in medicine and pharmacy. The "Chronicles" tell about the origin of the more popular medicines and trace their development to official status. Most fascinating and readable to pharmacists, who are advised to secure a copy by ordering from

"THE CHEMIST & DRUGGIST," 42 CANNON STREET, LONDON, E.C.

Printed for the Proprietors by SPOTTISWOODE, BALLANTYNE & CO. LTD. 1 New-street Square, and Published by the Proprietors at 42 Cannon Street, in the City of London.—December 9, 1916. [68]

Three Special Lines

LECIGEN

A new nerve food distinct from other similar preparations. Lecigen contains organic phosphorus in its natural form of Lecithin. It is in the form of a dry powder of an agreeable flavour.

FORMALETS

contain an appreciable dose of Formaldehyde and are pleasantly flavoured. Formalets are particularly valuable at this time of the year as a preventive of sore throats, etc.

LYSOL EVANS

(also known as EVANSOL) is made from Potash (not Soda) and is perfectly miscible with water. It contains 50 per cent. Cresylic Acid and is bacteriologically tested in our Laboratories.

EVANS SONS LESCHER & WEBB, LIMITED

LIVERPOOL & LONDON. Also NEW YORK, U.S.A.

THE BRITISH DRUG HOUSES Ltd

B.D.H.

'EASTERN FOAM'

THE NEW VANISHING CREAM,

the Sales of which have broken all records.

Our apologies are due to those of our friends who have been unable to obtain sufficient supplies, owing to shortage of material. AMPLE STOCKS ARE NOW AVAILABLE.

The illustration shows the greatly improved design of the new carton and label.

Retail
(P.A.T.A.)
1/-

Wholesale
8/6
per dozen.

Special Terms for Quantities, with Display.

22-30, Graham Street, City Road, LONDON, N.

Printed for the Proprietors by SPOTTISWOODE, BALLANTYNE & Co. LTD., New-Street Square, E.C.; and Published by the Proprietors at 42 Cannon Street, in the City of London.—*December* 9, 1916.